ORDER NO. ITD0310050A3

Service Manual

High Difinition Wide Plasma Display

Simplified

TH-42PHW6AZ
GPH6D

Please file and use this manual together with the service manual for Model No. / TH-42PHW6EX (MAIN), Order No.ITD0308027C0,

Panasonic®

1. Difference point

1.1. Mechanical Replacement Parts List

Ref. No.	Part No.		Parts Name & Description	Remarks
	TH-42PHW6EX	TH-42PHW6AZ		
	K2CN3DH00004	K2CK3DH00017	AC CORD	CHANGED
	TPCB34122	TPCB34124	CARTON BOX	CHANGED
	TQBC0573	TQBC0608	INSTRUCTION BOOK(ENGLISH	CHANGED
	TQBC0574	-----	INSTRUCTION BOOK(GARMEN)	DELETED
	TQBC0575	-----	INSTRUCTION BOOK(FRENCH)	DELETED
	TQBC0576	-----	INSTRUCTION BOOK(ITALIAN)	DELETED
	TQBC0577	-----	INSTRUCTION BOOK(SPANISH)	DELETED
	TQBC0578	-----	INSTRUCTION BOOK(DUTCH)	DELETED
	TQBC0579	-----	INSTRUCTION BOOK(DANISH)	DELETED
	TQBC0580	-----	INSTRUCTION BOOK(SWEDISH)	DELETED
	TTUA0731	TTUA0732	REAR COVER	CHANGED

1.2. Electrical Replacement Parts List

Ref. No.	Part No.		Parts Name & Description	Remarks
	TH-42PHW6EX	TH-42PHW6AZ		
RTL	-----	TXNHV10QWS	CIRCUIT BOARD HV	ADDED REFER TO TY-42TM6V S MANUAL
RTL	-----	TXNHZ10RCS	CIRCUIT BOARD HZ	ADDED REFER TO TY-42TM6Z S MANUAL

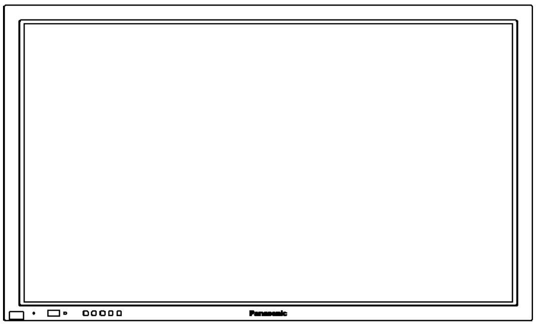
ORDER NO. ITD0308027C0
D10 Canada: B07

Service Manual

High Definition Plasma Display

TH-42PHW6EX / TH-42PHD6EX / TH-42PHD6BX / TH-42PHD6UY

GPH6D Chassis



SPECIFICATIONS

Specifications

Power Source:	AC120V 50/60Hz (UY version) AC220-240V 50/60Hz (Except UY version model)
Power Consumption:	265 W Save off 1.6 W, Save on 0.9 W (stand-by condition) (UY version) Save off 1.9 W, Save on 1.1 W (stand-by condition) (Except UY version model) 0.2 W (Power off condition) (UY version model) 0.4 W (Power off condition) (Except UY version model)
Plasma Display panel:	Drive method AC type 16:9 aspect ratio
Contrast Ratio	3000:1
Screen size:	920 mm (W) × 518 mm (H) 1,056 mm (diagonal) No. of pixels 786,432 (1,024 (W) × 768 (H)) [3,072 × 768 dots]

Operating condition:	
Temperature	**34 °F - 104 °F (0 °C - 40 °C)**
Humidity	**20 % - 80 %**
	Horizontal scanning frequency 15 - 110kHz
	Vertical scanning frequency 48 - 120Hz
Connection terminals:	
AV	
Video in	**1.0 Vp-p (75-ohm)**
S-VIDEO IN / (MINI DIN 4PIN)	**Y: 1 Vp-p (75-ohm), C: 0.286 Vp-p (75-ohm)**
AUDIO IN / (RCA PIN JACK × 2)	**0.5 Vrms (high impedance)**
COMPONENT/RGB	
Y/G	**1.0 Vp-p/composite (75-ohm)**
	0.7 Vp-p/non-composite (75-ohm)
PB /B	**0.7 Vp-p (75-ohm)**
PR /R	**0.7 Vp-p (75-ohm)**
HD	**1.0 - 5.0 Vp-p (high impedance)**
VD	**1.0 - 5.0 Vp-p (high impedance)**
AUDIO IN (RCA PIN JACK×2)	**0.5 Vrms (high impedance)**
PC	
(HIGH-DENSITY D-SUB15PIN)	**R,G,B/0.7 Vp-p (75-ohm)**
	HD, VD/1.0 - 5.0 Vp-p (high impedance)
AUDIO IN (M3 JACK)	**0.5Vrms (high impedance)**
SERIAL	
EXTERNAL CONTROL TERMINAL (D-SUB9PIN)	**RS-232C COMPATIBLE**
SPEAKERS (External speakers) (6 Ω)	**16W [8W+8W] (10% THD)**
Dimensions (W×H×D):	**1,020 mm × 610 mm 89 mm**
Weight (Mass)	**approx. 29.5 kg net (main unit only)**
	approx. 33.7 kg net (with speakers)

⚠ **WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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1. Applicable signals

VIDEO input

	signal name	horizontal frequency(kHz)	vertital frequency(Hz)
1	NTSC	15.734	59.95
2	PAL	15.625	50
3	PAL60	15.734	59.95
4	SECAM	15.625	50
5	Modified NTSC	15.734	59.95

∗ Mark:
By installing the optional Terminal Board.

Applicable input signals for PC Input (D-sub 15P) (* Mark)

	signal name	horizontal frequency(kHz)	vertital frequency(Hz)	RGB	PC	when Multi Screen and Digital Zoom
1	525(480)/60i	15.73	59.94	∗	∗	∗
2	525(480)/60p	31.47	59.94	∗	∗	∗
3	625(575)/50i	15.63	50.00	∗	∗	∗
4	625(575)/50p	31.25	50.00	∗	∗	∗
5	750(720)/60p	45.00	60.00	∗	∗	∗
6	750(720)/50p	37.50	50.00	∗	∗	∗
7	1,125(1,080)/60i	33.75	59.94	∗	∗	∗
8	1,125(1,080)/50i	28.13	50.00	∗	∗	∗
9	1,125(1,080)/24p	27.00	24.00	∗	∗	
10	1,125(1,080)/24sF	27.00	48.00	∗	∗	∗
11	1,250(1,080)/50i	31.25	50.00	∗	∗	∗
12	640 × 400@70 Hz	31.47	70.00		∗	∗
13	640 × 480@60 Hz	31.47	59.94		∗	∗
14	Macintosh13"(640 × 480)	35.00	66.67		∗	∗
15	640 × 480@75 Hz	37.50	75.00		∗	∗
16	852 × 480@60 Hz	31.50	60.00		∗	∗
17	800 × 600@60 Hz	37.88	60.32		∗	∗
18	800 × 600@75 Hz	46.88	75.00		∗	∗
19	800 × 600@85 Hz	53.67	85.06		∗	∗
20	Macintosh16"(832 × 624)	49.73	74.55		∗	∗
21	1,024 × 768@60 Hz	48.36	60.00		∗	∗
22	1,024 × 768@70 Hz	56.48	70.07		∗	∗
23	1,024 × 768@75 Hz	60.02	75.03		∗	∗
24	1,024 × 768@85 Hz	68.68	85.00		∗	∗
25	Macintosh21"(1,152 × 870)	68.68	75.06		∗	
26	1,280 × 1,024@60 Hz	63.98	60.02		∗	
27	1,280 × 1,024@75 Hz	79.98	75.03		∗	
28	1,280 × 1,024@85 Hz	91.15	85.02		∗	
29	1,600 × 1,200@60 Hz	75.00	60.00		∗	
30	1,0660 × 600@60 Hz	37.88	60.32		∗	∗
31	1,366 × 768@60 Hz	48.36	60.00		∗	∗

2. Safety Precautions

2.1. General Guidelines

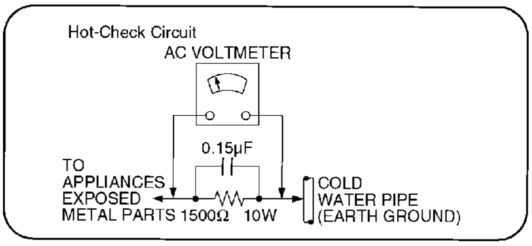
1. **When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.**
2. **After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.**
3. **After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.**

2.1.1. Leakage Current Cold Check

1. **Unplug the AC cord and connect a jumper between the two prongs on the plug.**
2. **Measure the resistance value, with an ohmmeter, between the**

jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to thechassis, the reading should be between 1M Ω and 5.2M Ω . / When the exposed metal does not have a return path to the chassis, the reading must be∞.

Figure 1



2.1.2. Leakage Current Hot Check (See Figure 1 .)

1. **Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.**
2. **Connect a 1.5k Ω , 10 watts resistor, in parallel with a 0.15 μ F capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1 .**
3. **Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.**
4. **Check each exposed metallic part, and measure the voltage at each point.**
5. **Reverse the AC plug in the AC outlet and repeat each of the above measurements.**
6. **The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outsideof the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.**

3. Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such

components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistorsand semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. **Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, whichshould be removed for potential shock reasons prior to applying power to the unit under test.**
2. **After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as alminum foil, to prevent electrostatic charge buildup or exposure of the assembly.**
3. **Use only a grounded-tip soldering iron to solder or unsolder ES devices.**
4. **Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.**
5. **Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.**
6. **Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, alminum foil or comparableconductive material).**
7. **Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.**

   Caution

   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. **Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing**

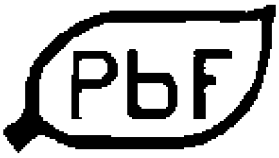
together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient todamage an ES device).

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

4. About lead free solder (PbF)

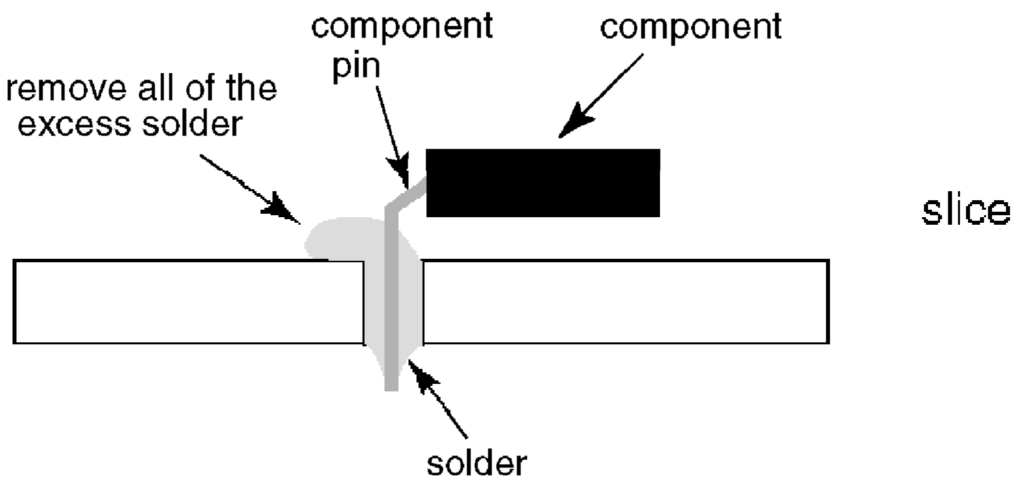
Note: Lead is listed as (Pb) in the periodic table of elements.
In the information below, Pb will refer to Lead solder, and PbF will refer to Lead Free Solder.
The Lead Free Solder used in our manufacturing process and discussed below is (Sn+Ag+Cu).
That is Tin (Sn), Silver (Ag) and Copper (Cu) although other types are available.
This model uses Pb Free solder in it's manufacture due to environmental conservation issues.
For service and repair work, we'd suggest the use of Pb free solder as well, although Pb solder may be used.
PCBs manufactured using lead free solder will have the PbF within a leaf Symbol



stamped on the back of PCB.

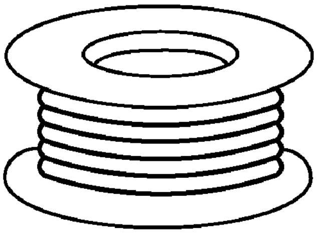
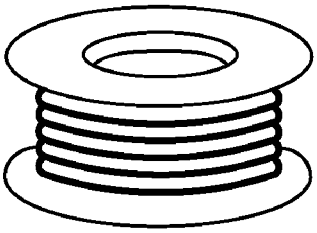
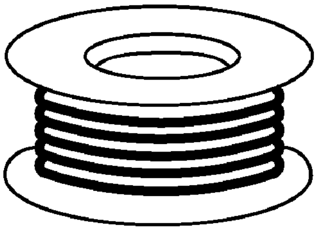
Caution

- **Pb free solder has a higher melting point than standard solder. Typically the melting point is 50 ~ 70 °F (30~40 °C) higher. Please use a high temperature soldering iron and set it to 700 ± 20 °F (370 ± 10 °C).**
- **Pb free solder will tend to splash when heated too high (about 1100 °F or 600 °C).**
  If you must use Pb solder, please completely remove all of the Pb free solder on the pins or solder area before applying Pb solder. If this is not practical, be sure to heat the Pb free solder until it melts, before applying Pb solder.
- **After applying PbF solder to double layered boards, please check the component side for excess solder which may flow onto the opposite side. (see figure below)**


component
pin
component
remove all of the
excess solder
slice
solder

Suggested Pb free solder

There are several kinds of Pb free solder available for purchase. This product uses Sn+Ag+Cu (tin, silver, copper) solder. However, Sn+Cu (tin, copper), Sn+Zn+Bi (tin, zinc, bismuth) solder can also beused.

0.3mm X 100g	0.6mm X 100g	1.0mm X 100g
		

5. PCB Structure sheet of GPH6D chassis

Board Name	Function	Remarks
D	Digital Signal Processor	1
J	Slot Interface & SYNC processor	1
Z	Audio out, DC-DC converter	
SS	Sustain Out	1
SC	Scan out	1
SU	Sustain connection (Upper)	1
SD	Sustain connection (Lower)	1
C1	Data Drive (Upper Right)	
C2	Data Drive (Upper Left)	
C3	Data Drive (Lower Left)	
C4	Data Drive (Lower Left)	
H3	Speaker terminal	
S1	Power switch	
SS2	Sustain connection (Upper)	
SS3	Sustain connection (Lower)	
V1	Front SW. & Remote receiver	
PF	Line filter	
P	Power supply	1
HX	PC_type_Input terminal	
HY	BNC Composite/Component Video	2
HZ	BNC Component Video	3

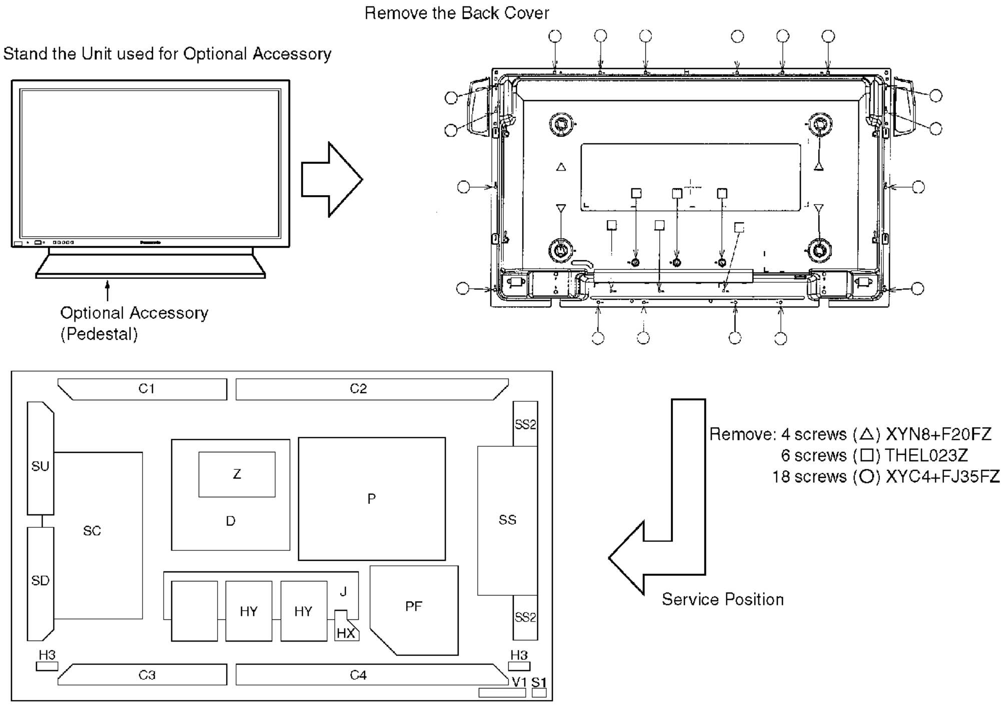
Remarks

1. Recommend PCB's for initial service for GPH6D chassis.

2. For System model except BX, EX version

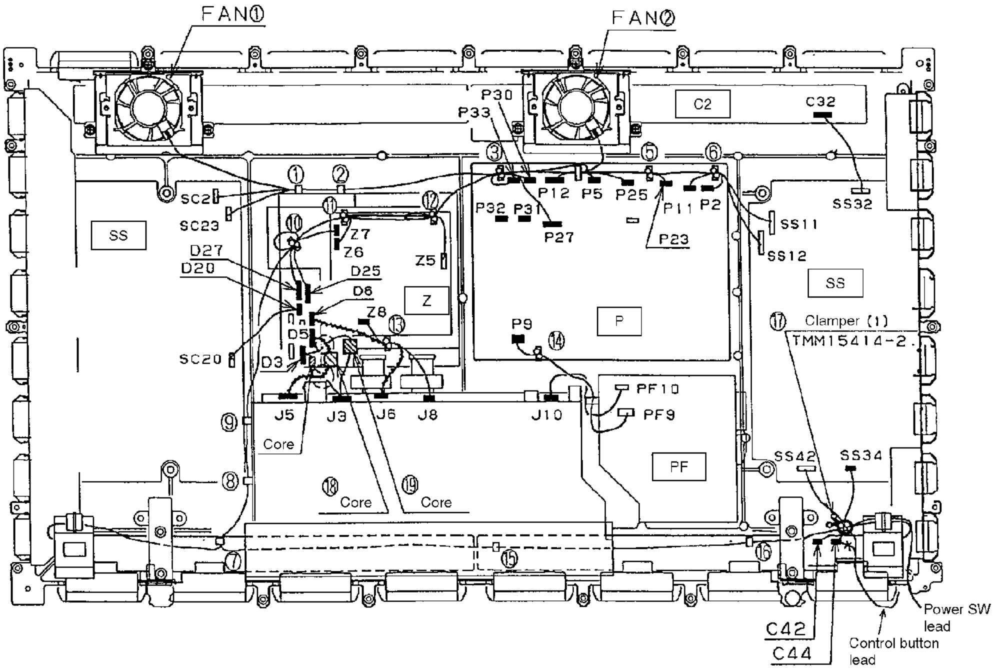
3. For Consumer model except BX, EX version

6. Service Hint


Stand the Unit used for Optional Accessory
Optional Accessory
(Pedestal)
Remove the Back Cover
Service Position
C1
C2
SS2
SU
Z
P
D
SC
SS
SD
J
HY
HY
HX
PF
SS2
H3
H3
C3
C4
V1
S1

Remove: 4 screws (△) XYN8+F20FZ
6 screws (□) THEL023Z
18 screws (○) XYC4+FJ35FZ

7. Location of Lead Wiring


FAN①
FAN②
P30
P33
C2
C32
SS32
③
⑤
⑥
①
②
⑫
⑪
⑩
SC2
SC23
D27
D20
Z7
Z6
D25
D6
Z5
Z
P32
P31
P12
P5
P25
P11
P2
P27
P23
SS11
SS12
SS
SS
Z8
⑬
D5
D3
SC20
P9
⑭
P
⑰ Clamper (1)
TMM15414-2
PF10
PF9
PF
J5
J3
J6
J8
J10
⑨
Core
⑧
⑱ Core
⑲ Core
SS42
SS34
⑦
⑮
⑯
C42
C44
Power SW lead
Control button lead

CON:NO — CON:NO	CLAMPER ①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳
SC2 — P2	○	○	○	○	○	○														
SC23 — P23	○	○	○	○	○															
SC20 — D20																				
D27 — P27			○							◎	○	○								
D25 — P25			○	○						◎	○	○								
D3 — J3																			○	
D6 — J6													○							
Z8 — J8													○							
D5 — J5																		○		
Z5 — P5			○	○								◎								
SP (SC SIDE) — Z7							○	○	○	○										
SP (SS SIDE) — Z6							○	○	○	○	○				○	○	○			
SS12 — P12				○	○	○														
SS11 — P11						○														
SS42 — C42																	○			
SS32 — C32																				
POWER SW — SS34																	○			
CONTROL BUTTON — C44																	○			
PF9 — P9														○						
PF10 — J10																				
FAN① — P30	○	○	○																	
FAN② — P33			○	○																

◎ Wind up second times.

Connector Connection: P2, P5, P9, P11, P12, P23, P25, P27, P30, P31, P32, P33
Z6, Z7, Z8,
D3, D5, D6, D20, D25, D27
J3, J5, J6, J8, J10,
SS34,
C23, C42, C44

8. Adjustment Procedure

8.1. Driver Set-up

8.1.1. Item / Preparation

1. Input an APL 100 % white signal.

2. Set the picture controls: -
Picture mode: Normal
White balance: Cool
Aspect: 16:9

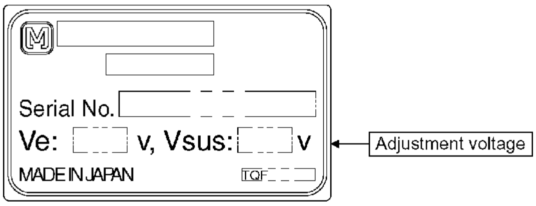
8.1.2. Adjustments

Adjust driver section voltages referring the panel data on the panel data label.

Name	Test Point	Voltage	Volume	Remarks
Vsus	TPVSUS (SS)	170V ± 2V	VR641 (P)	
Ve	TPVE (SS)	150V ± 1V	R6770 (SS)	
Vset	TPVSET (SC)	220V ± 5V	---	
Vad	TPVAD (SC)	-90V ± 1V	R6477 (SC)	
Vscn	TPVSCN (SC)	Vad*+118V ± 2V	---	
Vda	TPVDA (SS)	67V ± 1V	VR665 (P)	

***See the Panel label.**

Panel Label information



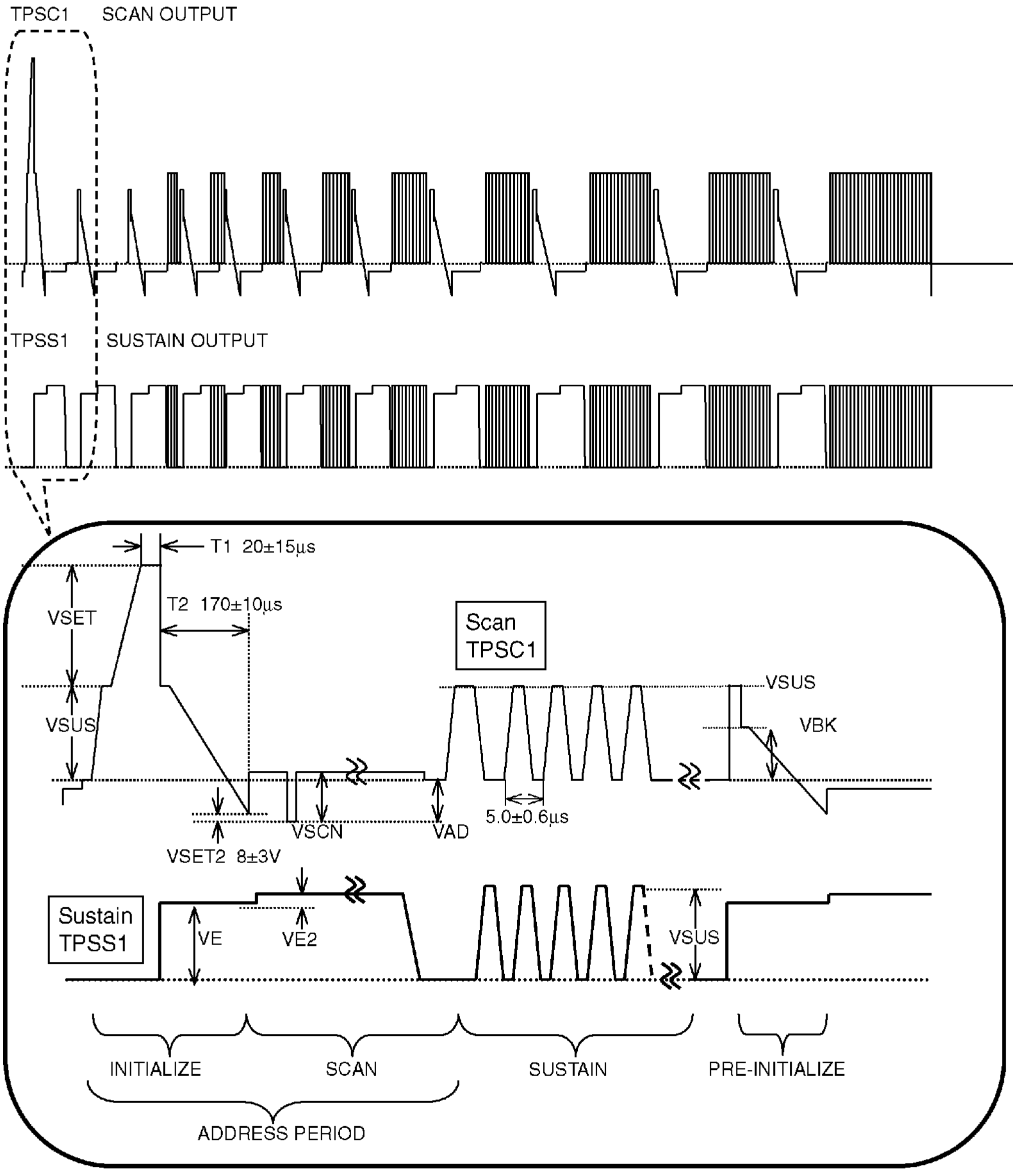
8.2. Initialization Pulse Adjust

1. Input a Cross hatch signal.

2. Set the picture controls: -
Picture mode: Normal
White balance: Cool

Adjust the indicated test point for the specified wave form.

	Test point	Volume	Level
T1	**TPSC1 (SC)**	**---**	**20 ± 15 µ Sec**
T2	**TPSS1 (SS)**	**R6557 (SC)**	**170 ± 10 µ Sec**


TPSC1
SCAN OUTPUT
TPSS1
SUSTAIN OUTPUT
T1 20±15µs
T2 170±10µs
VSET
VSUS
Scan
TPSC1
VSUS
VBK
5.0±0.6µs
VSET2 8±3V
VSCN
VAD
Sustain
TPSS1
VE
VE2
VSUS
INITIALIZE
SCAN
SUSTAIN
PRE-INITIALIZE
ADDRESS PERIOD

8.3. P.C.B. (Printed Circuit Board) exchange

8.3.1. Caution

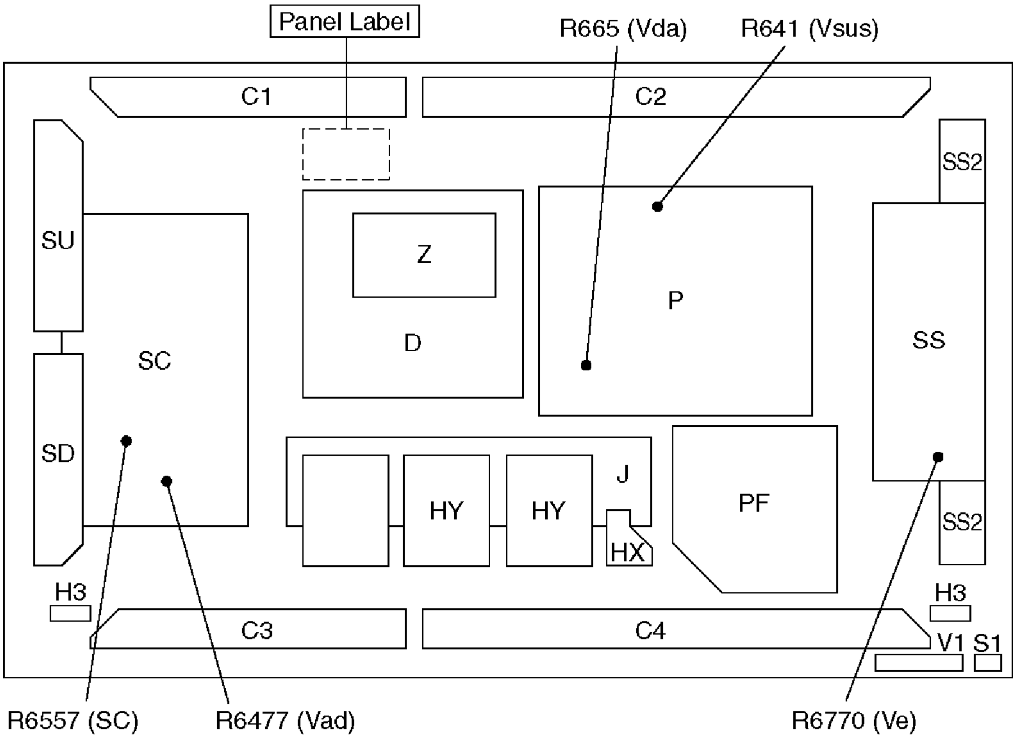
1. To remove P.C.B. , wait 1 minute after power was off for discharge from electrolysis capacitors.

8.3.2. Quick adjustment after P.C.B. exchange

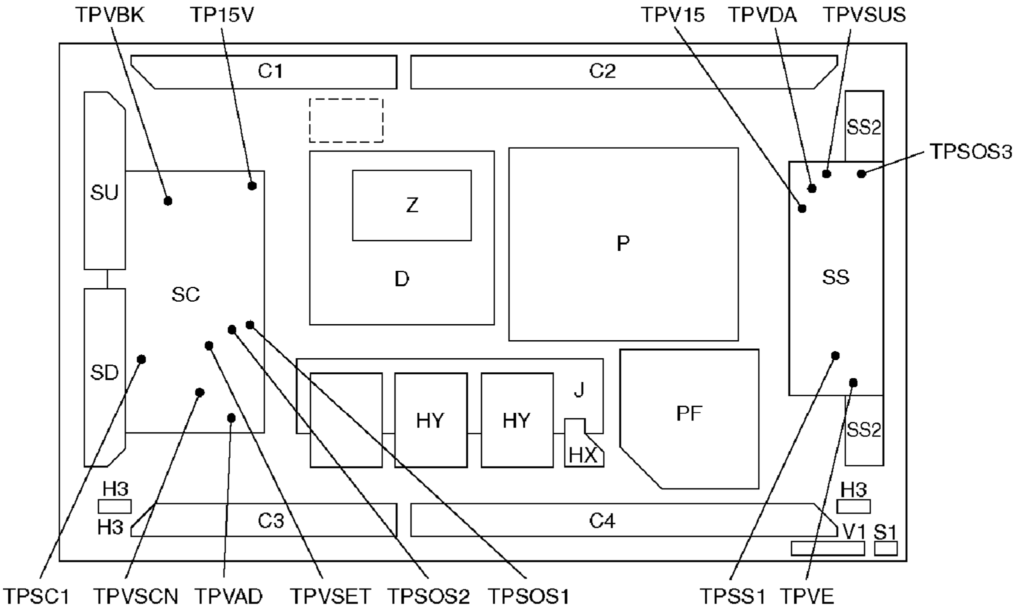
P.C.B.	Name	Test Point	Voltage	Volume	Remarks
P Board	**Vsus**	**TPVSUS (SS)**	**170V ± 2V**	**R641 (P)**	
	Vda	**TPVDA (SS)**	**67V ± 1V**	**R665 (P)**	
SC Board	**Vad**	**TPVAD (SC)**	**-90V ± 1V**	**R6477 (SC)**	
	Vset	**TPVSET (SC)**	**220V ± 5V**	**---**	
	Vscn	**TPVSCN (SC)**	**Vad + 118 ± 2V**	**---**	
SS Board	**Ve**	**TPVE (SS)**	**158V ± 1V**	**R6770 (SS)**	
D, J Board	**White blance, Pedestal and Sub brightness for NTSC, PAL, HD, PC and 625i signal**				

***See the Panel label.**

8.4. Adjustment Volume Location


Panel Label
R665 (Vda)
R641 (Vsus)
C1
C2
SS2
SU
Z
P
D
SC
SS
SD
J
HY
HY
PF
SS2
HX
H3
H3
C3
C4
V1
S1
R6557 (SC)
R6477 (Vad)
R6770 (Ve)

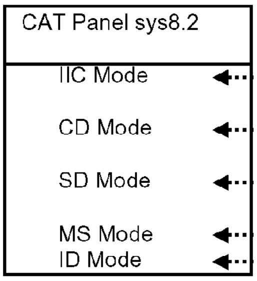
8.5. Test Point Location


TPVBK
TP15V
TPV15
TPVDA
TPVSUS
TPSOS3
C1
C2
SS2
SU
Z
D
P
SS
SC
SD
J
HY
HY
PF
HX
SS2
H3
H3
C3
C4
H3
V1
S1
TPSC1
TPVSCN
TPVAD
TPVSET
TPSOS2
TPSOS1
TPSS1
TPVE

9. Service mode

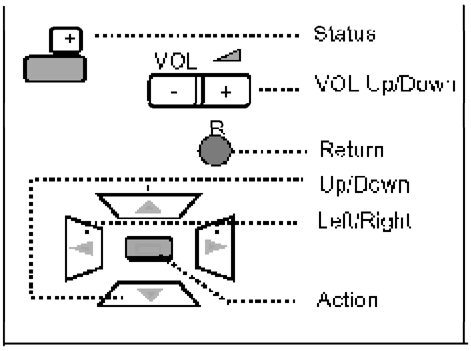
9.1. CAT (computer Aided Test) mode

CAT mode menu


CAT Panel sys8.2
IIC Mode
CD Mode
SD Mode
MS Mode
ID Mode

Mode	Function	Access button
IIC	Service Alignment	Action
CD(Complete Diagnostics)	Software version information EEPROM edit	Mute more than 5 seconds
SD(Status Display)	MTBF parameter	Action
MS Mode	Not use	-----
ID	Not use	-----

Remote control


Status
VOL
VOL Up/Down
R
Return
Up/Down
Left/Right
Action

How to access the CAT mode.

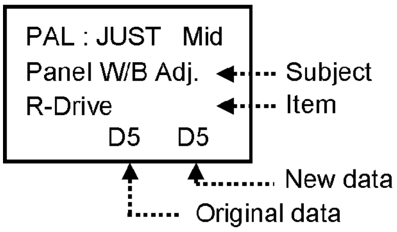
Press and the hold the Volume down / - button on the front panel of the unit and press the status button on the remote control 3 times quickly within 1 second, this will place the unit into the CAT mode.

To exit the CAT mode , access the ID mode and switch off the main power.

9.1.1. IIC mode

Select the IIC mode by Up/Down button on the remote control at the front page of CAT mode then press the Action button on the remote control.

OSD


PAL : JUST Mid
Panel W/B Adj.
R-Drive
D5 D5
Subject
Item
New data
Original data

How to use the IIC mode.

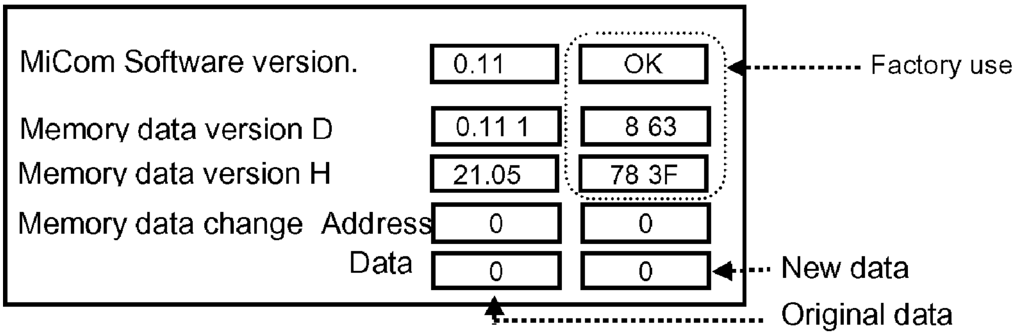
1. Select the alignment **Subject** by **Up/Down buttons** on the remote control.
2 .Select the alignment **Item** by **Left/Right buttons** on the remote control.
3. Adjust **optimum setting** by **Volume Up/Down buttons** on the remote control.
4. The **data is memorized** when press the **R button** on the remote control or change the alignment Subject (or Items).

Subject and item are mentioned on page 14.
To exit the IIC mode, press the R button on the remote control.

9.1.2. CD mode

Select the CD mode by Up/Down button on the remote control at the front page of CAT mode then press the Mute button on the remote control more than 5 sec.

OSD

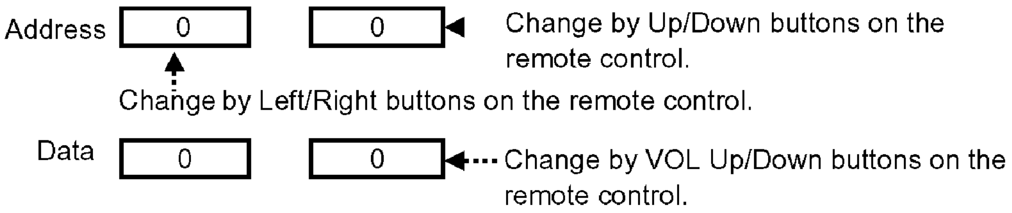

MiCom Software version.
0.11
OK
Factory use
Memory data version D
0.11 1
8 63
Memory data version H
21.05
78 3F
Memory data change Address
0
0
Data
0
0
New data
Original data

Micom software version (IC9354), this version can be upgrade by

1. replace of new version IC

2. Loading the new version software from loader tool, TZSC07036.

Memory data change


Address
0
0
Change by Up/Down buttons on the remote control.
Change by Left/Right buttons on the remote control.
Data
0
0
Change by VOL Up/Down buttons on the remote control.

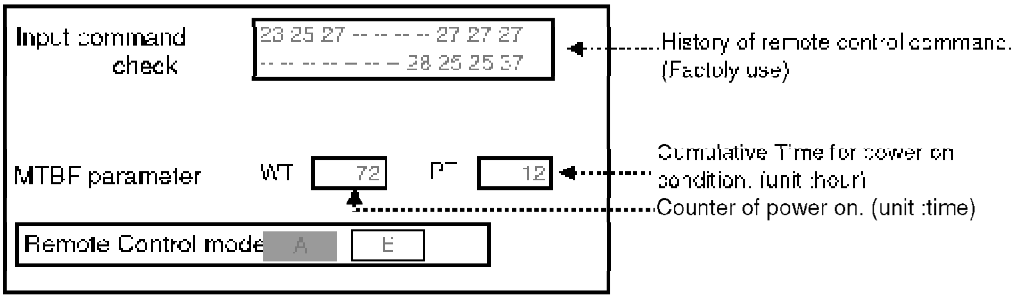
The data is memorized when switch off the main power.

To exit the CD mode, press the R button on the remote control.

9.1.3. SD mode

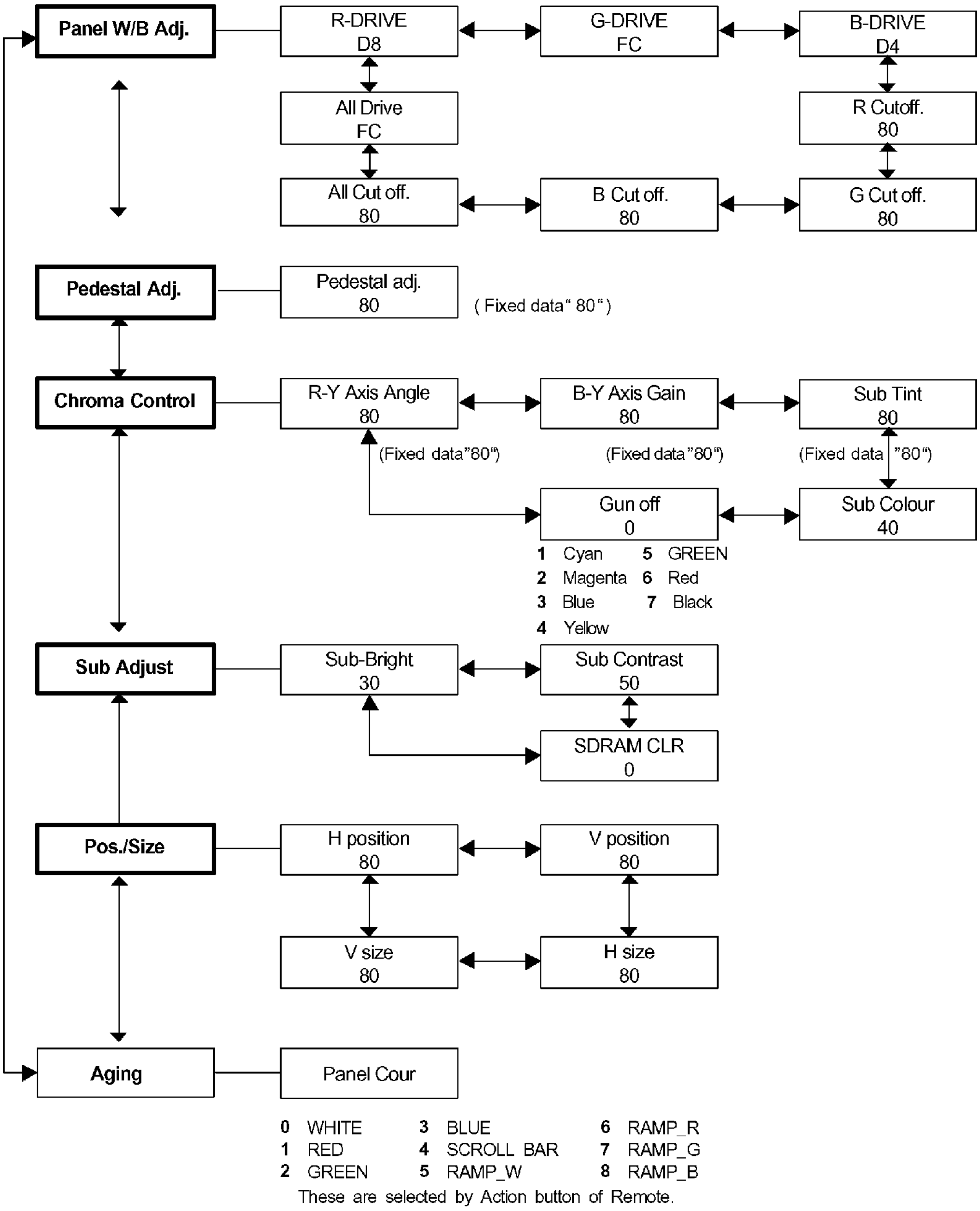
Select the SD mode by Up/Down button on the remote control at the front page of CAT mode then press the Action button on the remote control.

OSD


Input command check
23 25 27 -- -- -- -- 27 27 27
-- -- -- -- -- -- -- 28 25 25 37
History of remote control command.
(Factory use)
MTBF parameter
WT
72
PT
12
Cumulative Time for power on condition. (unit :hour)
Counter of power on. (unit :time)
Remote Control mode
A
E

To exit the SD mode, press the R button on the remote control.

9.2. IIC mode structure (following items value is sample data.)


Panel W/B Adj.
R-DRIVE
D8
G-DRIVE
FC
B-DRIVE
D4
All Drive
FC
R Cutoff.
80
All Cut off.
80
B Cut off.
80
G Cut off.
80
Pedestal Adj.
Pedestal adj.
80
(Fixed data“ 80“)
Chroma Control
R-Y Axis Angle
80
B-Y Axis Gain
80
Sub Tint
80
(Fixed data”80“)
(Fixed data”80“)
(Fixed data ”80“)
Gun off
0
Sub Colour
40
1 Cyan
5 GREEN
2 Magenta
6 Red
3 Blue
7 Black
4 Yellow
Sub Adjust
Sub-Bright
30
Sub Contrast
50
SDRAM CLR
0
Pos./Size
H position
80
V position
80
V size
80
H size
80
Aging
Panel Cour
0 WHITE
3 BLUE
6 RAMP_R
1 RED
4 SCROLL BAR
7 RAMP_G
2 GREEN
5 RAMP_W
8 RAMP_B
These are selected by Action button of Remote.

10. Alignment

10.1. Pedestal setting (C)

Note:
OSD is the difference between UY model and Except UY model. / Picture: Normal (Except UY)/ Standard (UY model) / White balance (Except UY)/Color Temp (UY model)

10.2. Pedestal setting (B)

Note:
OSD is the difference between UY model and Except UY model. / Picture: Normal (Except UY)/ Standard (UY model) / White balance (Except UY)/Color Temp (UY model)

10.3. NTSC panel white balance

10.4. PAL/SECAM panel white balance

10.5. PC/RGB panel white balance

10.6. HD/ 525i /525p /625I /625P panel white balance

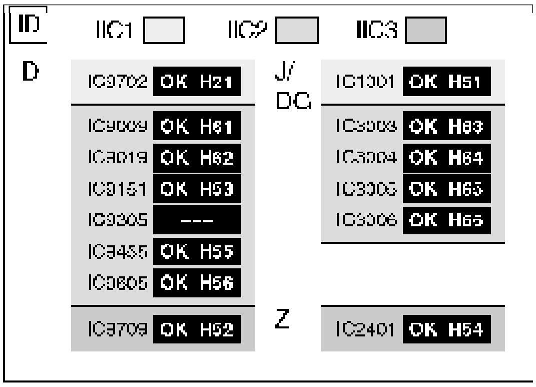
11. Trouble shooting guide

11.1. Self Check

11.1.1. Display Indication

1. **Self-check is used to automatically check the bus line controlled circuit of the Plasma display.**
2. **To get into the Self-check mode, press the volume down button on the customer controls at the front of the set, at the same time pressing the OFF-TIMER button on the remote control, and the screen will show :-**

If the CCU ports have been checked and found to be incorrect
Or not located then " - - " will appear in place of " OK "


ID IIC1 IIC2 IIC3

D
IC9702 OK H21
IC9009 OK H61
IC9019 OK H62
IC9151 OK H53
IC9305 ---
IC9455 OK H55
IC9605 OK H56
IC9709 OK H52

J/ DG
IC1001 OK H51
IC3003 OK H63
IC3004 OK H64
IC3005 OK H65
IC3006 OK H66

Z
IC2401 OK H54

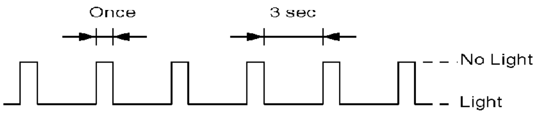
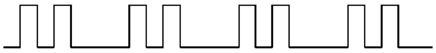
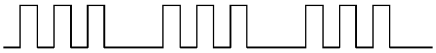
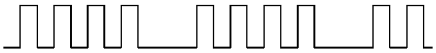
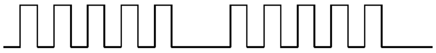
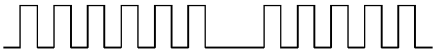
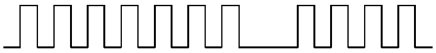
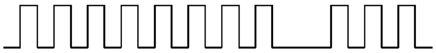
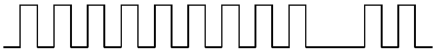
11.1.2. Power LED Blinking timing chart

1. Subject

Information of LED Flashing timing chart.

2. Contents

When an abnormality has occurred the unit, the protection circuit operates and reset to the stand by mode. At this time, the defective block can be identified by the number of blinkes of the Power LED on the front panel of the unit.

Blinking times	Blinking timing	Contents & Check point
1		Main Micom Power
2		SCAN Driver1
3		3.3V SOS
4		5V SOS
5		Power SOS
6		FAN
7		SCAN Driver2
8		TEMP (Not used)
9		SUS Driver

3. Remarks

Above Fan function is operated during the fans are installed.

11.2. No Power

[First check point]

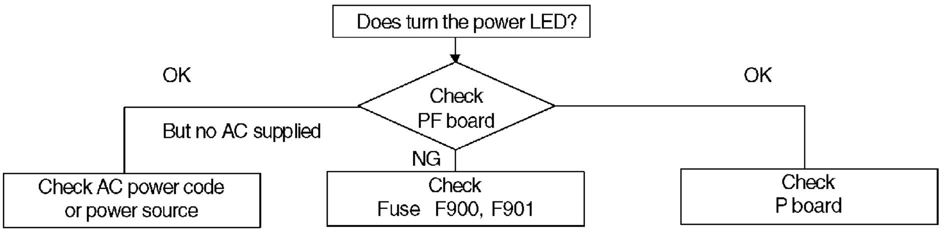
There are following 3 states of No Power indication by power LED.

1. No lit

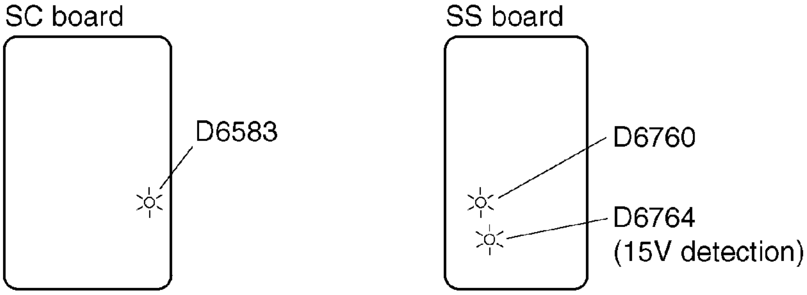
2. Green is lit then turns red blinking a few seconds later.

3. Only red is lit.

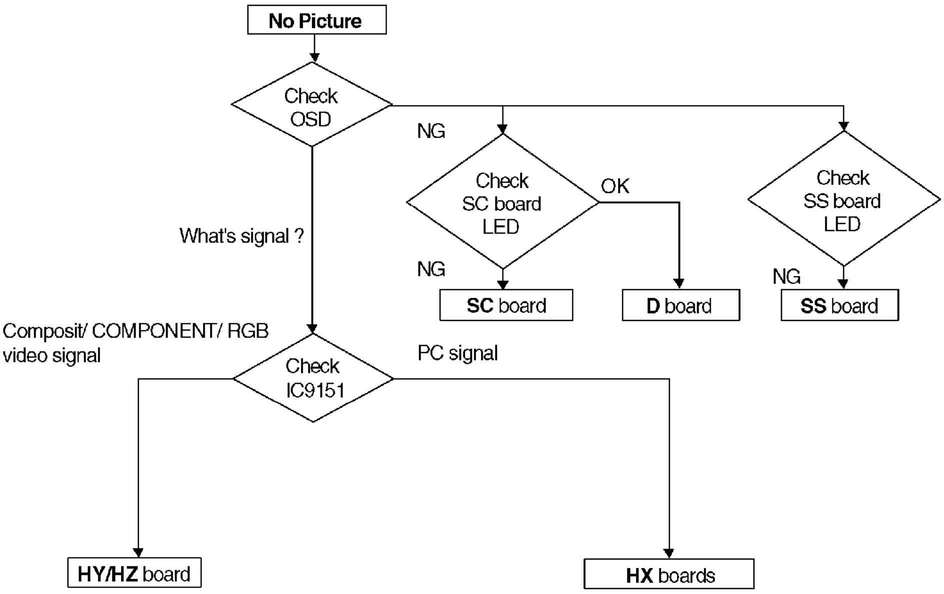
1. No lit


Does turn the power LED?
OK
OK
Check
PF board
But no AC supplied
NG
Check AC power code
or power source
Check
Fuse F900, F901
Check
P board

Drive circuits LED indicator


SC board
D6583
SS board
D6760
D6764
(15V detection)

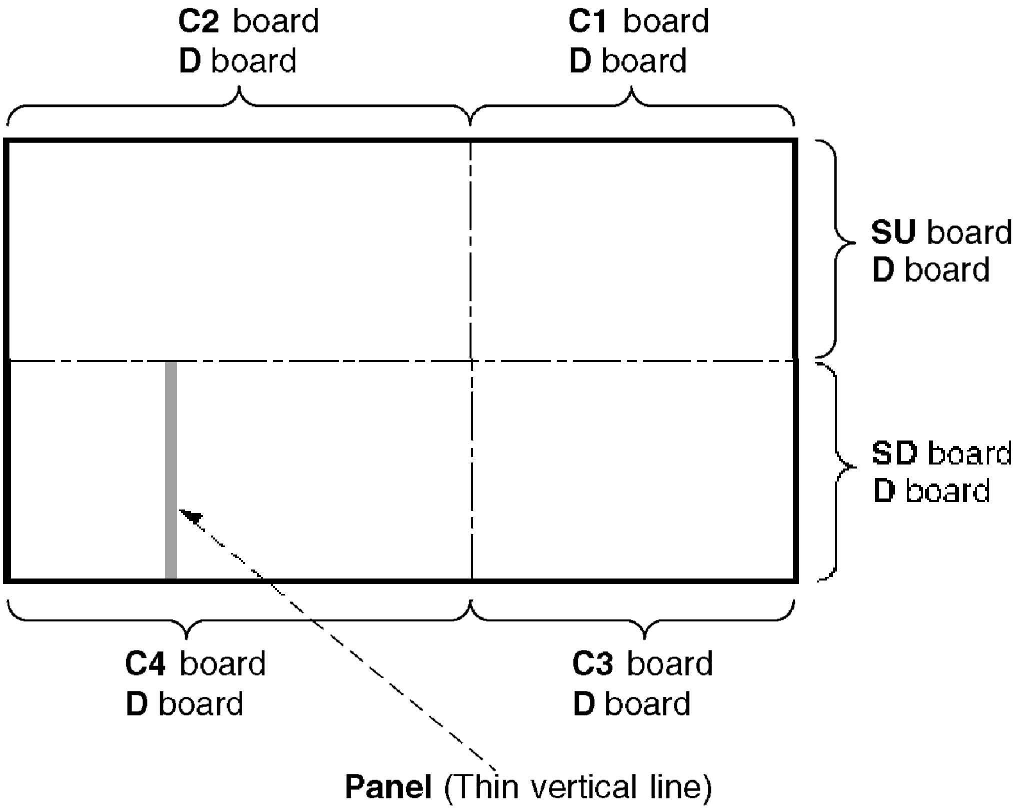
11.3. No Picture


No Picture
Check OSD
NG
Check SC board LED
OK
Check SS board LED
What's signal ?
NG
SC board
D board
NG
SS board
Composit/ COMPONENT/ RGB video signal
Check IC9151
PC signal
HY/HZ board
HX boards

11.4. Local screen failure

Plasma display may have local area failure on the screen. Fig - 1 is the possible defect P.C.B. for each local area.

Fig - 1


C2 board
D board
C1 board
D board
SU board
D board
SD board
D board
C4 board
D board
C3 board
D board
Panel (Thin vertical line)

<Local screen failure chart>

12. Option Setting

12.1. How to access and setting

12.2. Contents of Option Menu

This chassis series have special function and operation setting facility called Option Menu. This Option Menu is useful for special function required customers. This should be set at the installation stage. The end user could not set or change these becauseof hidden On screen menu.

Option menus	default setting	Contents
Off-timer function	Enable	Off-timer operation Enable/Disable.
On Screen display	On	Enable/Disable to display input mode indication aft power on and no signal indication.
Initial Input	Off	Sets the initial input mode when the power is turne Allow input mode selection while power is on.
Initial VOL. level	Off	Sets the initial volume level when the power is tur Allow Volume control while power is on.
Maximum VOL. Level	Off	Sets the maximum volume to desired level. Volume exceed this level.
INPUT lock	Off	Fixes the input mode to AV, Component/RGB or PC not change input mode by input selection key.
Button lock	Off	Enable/Disable front operation buttons (Input and/ volume up/down)
Studio W/B	Off	Set warm mode color temperature to 3,200 Kelvin.
Remocon User Level	Off	Remote key invalidation. Off : Valid key is all key of remote. User1 : Valid key are only Stand-by (ON/OFF), Inpu Status, Surround, Sound mute On/Off, and volume adjustment. User2: Valid key is only Stand-by (ON/OFF). User3 : All keys are null and void
ID Select	0 to 100	Set ID number from 001 to 100.
Remote ID	Off	Remote ID function On/Off. (While the Remote ID on, standard remote function control the unit.)
Serial	Off	Serial ID function On/Off
Slot power	Off	Sets the slot power mode the power is turned on. Allow Optional Terminal Board insert Slots while p on.

Note :
How to set Remocon User Level and Remote ID off

1. Access service mode (CAT-mode) and press SET UP key on remote.

2. Accsess option menu.

3. Change Remocon User Level and/ or Remote ID set to Off.

13. Conductor Views

13.1. PF-Board

13.2. P-Board

13.3. HX-Board

13.4. HY-Board

13.5. J-Board

13.6. D-Board

13.7. C1-Board

13.8. C2-Board

13.9. C3-Board

13.10. C4-Board

13.11. SC-Board

13.12. SU-Board

13.13. SD-Board

13.14. SS, SS2 and SS3-Board

13.15. Z-Board

13.16. V1, S1 and H3-Board

14. Schematic Diagrams

14.1. Schematic Diagram Notes

14.2. Main Block Diagram

14.3. PF-Board Schematic Diagram

14.4. Power Block Diagram
14.5. P-Board (1 of 6) Schematic Diagram
14.6. P-Board (2 of 6) Schematic Diagram
14.7. P-Board (3 of 6) Schematic Diagram
14.8. P-Board (4 of 6) Schematic Diagram
14.9. P-Board (5 of 6) Schematic Diagram
14.10. P-Board (6 of 6) Schematic Diagram
14.11. HX-Board Block Diagram
14.12. HX-Board Schematic Diagram
14.13. HY-Board Block Diagram
14.14. HY-Board (1 of 3) Schematic Diagram
14.15. HY-Board (2 of 3) Schematic Diagram
14.16. HY-Board (3 of 3) Schematic Diagram
14.17. J-Board Block Diagram
14.18. J-Board (1 of 4) Schematic Diagram
14.19. J-Board (2 of 4) Schematic Diagram
14.20. J-Board (3 of 4) Schematic Diagram
14.21. J-Board (4 of 4) Schematic Diagram
14.22. D-Board (1 of 2) Block Diagram
14.23. D-Board (2 of 2) Block Diagram
14.24. D-Board (1 of 15) Schematic Diagram
14.25. D-Board (2 of 15) Schematic Diagram
14.26. D-Board (3 of 15) Schematic Diagram
14.27. D-Board (4 of 15) Schematic Diagram
14.28. D-Board (5 of 15) Schematic Diagram

14.29. D-Board (6 of 15) Schematic Diagram

14.30. D-Board (7 of 15) Schematic Diagram

14.31. D-Board (8 of 15) Schematic Diagram

14.32. D-Board (9 of 15) Schematic Diagram

14.33. D-Board (10 of 15) Schematic Diagram

14.34. D-Board (11 of 15) Schematic Diagram

14.35. D-Board (12 of 15) Schematic Diagram

14.36. D-Board (13 of 15) Schematic Diagram

14.37. D-Board (14 of 15) Schematic Diagram

14.38. D-Board (15 of 15) Schematic Diagram

14.39. C1-Board, C2-Board, C3-Board, C4-Board and V1-Board Block Diagram

14.40. C1-Board (1 of 2) Schematic Diagram

14.41. C1-Board (2 of 2) Schematic Diagram

14.42. C2-Board (1 of 2) Schematic Diagram

14.43. C2-Board (2 of 2) Schematic Diagram

14.44. C3-Board (1 of 2) Schematic Diagram

14.45. C3-Board (2 of 2) Schematic Diagram

14.46. C4-Board (1 of 2) Schematic Diagram

14.47. C4-Board (2 of 2) Schematic Diagram

14.48. SC-Board Block Diagram

14.49. SC-Board (1 of 2) Schematic Diagram

14.50. SC-Board (2 of 2) Schematic Diagram

14.51. SU-Board Block Diagram

14.52. SU-Board (1 of 2) Schematic Diagram

14.53. SU-Board (2 of 2) Schematic Diagram

14.54. SD-Board Block Diagram

14.55. SD-Board (1 of 2) Schematic Diagram

14.56. SD-Board (2 of 2) Schematic Diagram

14.57. S1-Board, SS-Board, SS2-Board and SS3-Board Block Diagram

14.58. SS-Board (1 of 2) Schematic Diagram

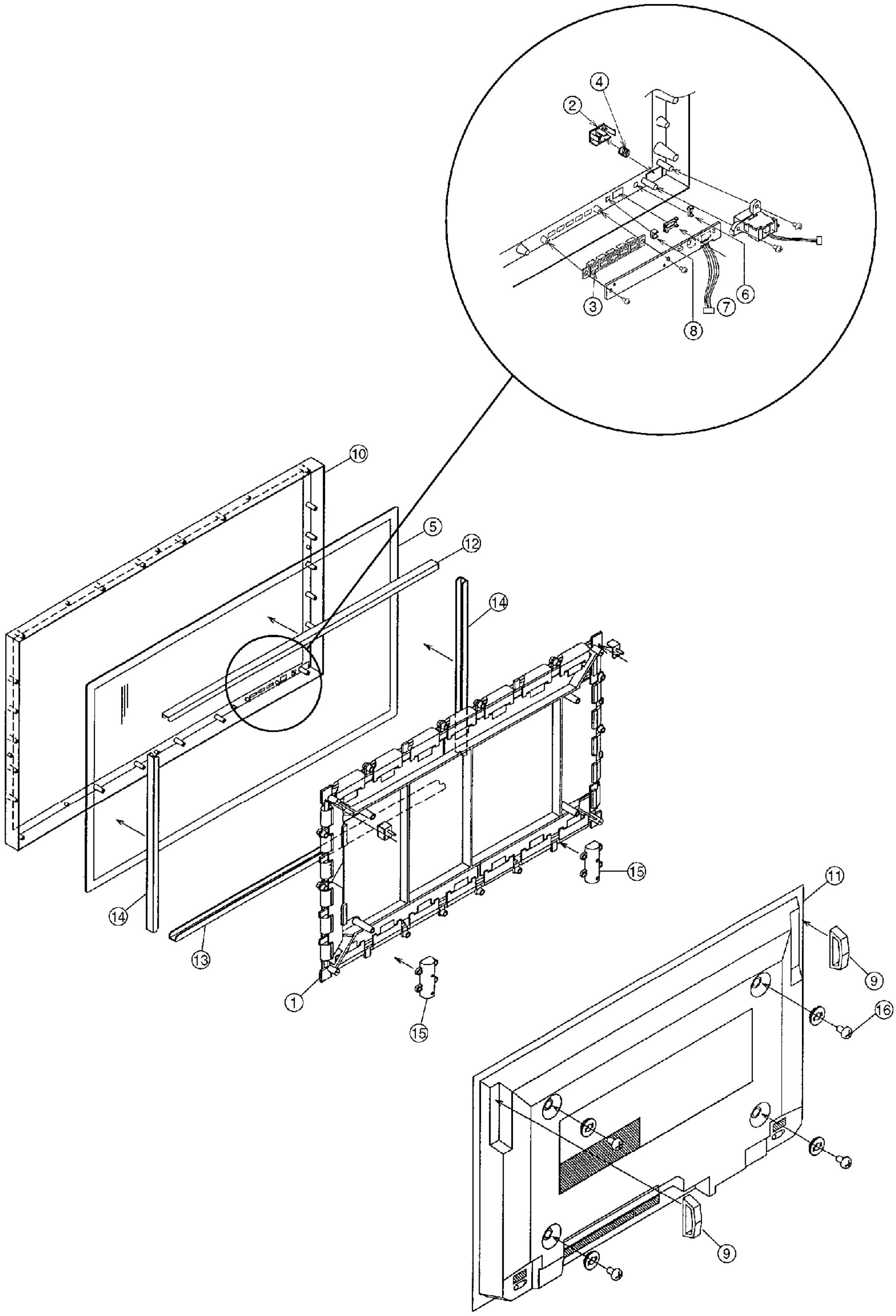
14.59. SS-Board (2 of 2) Schematic Diagram

14.60. Z-Board and H3-Board Block Diagram

14.61. Z-Board (1 of 2) Schematic Diagram

14.62. Z-Board (2 of 2) Schematic Diagram

15. Parts Location


④
②
③
⑧
⑦
⑥
⑩
⑤
⑫
⑭
⑭
⑬
①
⑮
⑮
⑪
⑨
⑯
⑨

16. Mechanical Replacement Parts List

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	EUR646529	REMOTE CONTROL	1	TH-42PHD6BX/EX/UY
	EUR646530	REMOTE CONTROL	1	TH-42PHW6EX
	FBL06A12LS	FAN	2	
	J0KF00000018	FILTER	1	
	J0KG00000054	NOISE FILTER	2	
	K2AH3H000027	AC INLET	1	⚠
	K2CG3DH00025	AC CORD	1	TH-42PHD6UY ⚠
	K2CN3DH00004	AC CORD	1	TH-42PHW6EX TH-42PHD6EX ⚠
	K2CT3DH00017	AC CORD	1	TH-42PHD6BX ⚠
	K4DQD0000061	CABLE TERMINAL (1P)	3	
1	MD42H06A1J	PLASMA DISPLAY PANEL	1	⚠
	TBMA008	PANASONIC BADGE	1	TH-42PHD6BX/EX/UY
	TBMA118	PANASONIC BADGE	1	TH-42PHW6EX
2	TBXA28202A	POWER BUTTON	1	TH-42PHD6BX/EX/UY
2	TBXA28214	POWER BUTTON	1	TH-42PHW6EX
3	TBXA38901	HINDGE BUTTON	1	TH-42PHW6EX
3	TBXA38902	HINDGE BUTTON	1	TH-42PHD6BX/EX/UY
4	TESD031	SPRING	1	
	THEA068N	SCREW	4	
	THEL023Z	SCREW	14	
	THEL027N	SCREW	26	
	THEL035N	SCREW	92	
	THTD010N	SCREW	6	
	THTD011	SCREW	3	
	THTF003Y	SCREW	37	
5	TKGA5119	FRONT GALLAS	1	
6	TKKC5105	LED PANEL	1	
	TKKL5266	COVER	1	
7	TKPA60301	REMOCON RECEIVE PANEL	1	TH-42PHD6BX/EX/UY
7	TKPA60302	REMOCON RECEIVE PANEL	1	TH-42PHW6EX
8	TKPA63401	PHOTO IC RECEIVE PANEL	1	
9	TKRA29801	HANDLE	2	
	TMKX236	INSULATOR	1	
	TMM15414-2	CLAMPER	2	
	TMM17499	CLAMPER	1	
	TMM25401	CLAMPER	3	
	TMM7468-1	CLAMPER	2	
	TMME047	CLAMPER	4	
	TMME061	CLAMPER	4	
	TMME075	EADG SADOLE	2	
	TMME144	CLAMPER	1	
	TMME152	CLAMPER	1	
	TMME185	CLAMPER	2	
	TMME187	CLAMPER	2	
	TMME189	CLAMPER	2	
	TMME225	AC CORD CLAMPER	1	
	TMME228	CLAMPER	2	
	TMMJ074	CUSHION (RUBBER)	6	
	TMMJ078	CUSHION (RUBBER)	8	
	TMMX095	BRACKET	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	TMWC006-1	POWER BUTTOM BRACKET	1	
	TMXX021-1	CORE HOLDER	4	
	TPCA95901A	BOTTOM CARTON	1	
	TPCB34118	CARTON BOX	1	TH-42PHD6EX ⚠
	TPCB34119	CARTON BOX	1	TH-42PHD6BX ⚠
	TPCB34122	CARTON BOX	1	TH-42PHW6EX ⚠
	TPCB40402	CARTON BOX	1	TH-42PHD6UY ⚠
	TPCB48402	CARTON BOX	1	TH-42PHD6UY ⚠
	TPD169487	JOINT	8	
	TPDA0510-1	CUSHION(UPPER RIGHT)	1	
	TPDA0511-1	CUSHION(UPPER LEFT)	1	
	TPDA0512	CUSHION(UPPER CENTER)	1	
	TPDA0513	CUSHION(BOTTOM RIGHT)	1	
	TPDA0514	CUSHION(BOTTOM LEFT)	1	
	TPDA0515-2	CUSHION(BOTTOM CENTER)	1	
	TPDA0675	CUSHION(UPPER RIGHT/LEFT)	2	TH-42PHD6UY
	TPDA0676	CUSHION(UPPER CENTER)	1	TH-42PHD6UY
	TPDA0794	CUSHION(BOTTOM RIGHT/LEFT	1	TH-42PHD6UY
	TPDF0596	CUSHION	1	
	TPDF0737	PAPER BOX	1	
	TPDF0905	PAD(UPPER)	1	TH-42PHD6UY
	TPEH170	PROTECT COVER	1	
	TPGA2150	BOTTOM CARTON	1	TH-42PHD6UY
	TQBC0570	INSTRUCTION BOOK(ENGLISH)	1	TH-42PHD6UY ⚠
	TQBC0571	INSTRUCTION BOOK(FRENCH)	1	TH-42PHD6UY ⚠
	TQBC0572	INSTRUCTION BOOK(SPANISH)	1	TH-42PHD6UY ⚠
	TQBC0573	INSTRUCTION BOOK(ENGLISH	1	TH-42PHW6EX ⚠
	TQBC0574	INSTRUCTION BOOK(GARMEN)	1	TH-42PHW6EX ⚠
	TQBC0575	INSTRUCTION BOOK(FRENCH)	1	TH-42PHW6EX ⚠
	TQBC0576	INSTRUCTION BOOK(ITALIAN)	1	TH-42PHW6EX ⚠
	TQBC0577	INSTRUCTION BOOK(SPANISH)	1	TH-42PHW6EX ⚠
	TQBC0578	INSTRUCTION BOOK(DUTCH)	1	TH-42PHW6EX ⚠
	TQBC0579	INSTRUCTION BOOK(DANISH)	1	TH-42PHW6EX ⚠
	TQBC0580	INSTRUCTION BOOK(SWEDISH)	1	TH-42PHW6EX ⚠
	TQBC0598	INSTRUCTION BOOK(ENGLISH)	1	TH-42PHD6EX ⚠
	TQBC0599	INSTRUCTION BOOK(GARMEN)	1	TH-42PHD6EX ⚠
	TQBC0600	INSTRUCTION BOOK(FRENCH)	1	TH-42PHD6EX ⚠
	TQBC0601	INSTRUCTION BOOK(ITALIAN)	1	TH-42PHD6EX ⚠
	TQBC0602	INSTRUCTION BOOK(SPANISH)	1	TH-42PHD6EX ⚠
	TQBC0603	INSTRUCTION BOOK(DUTCH)	1	TH-42PHD6EX ⚠
	TQBC0604	INSTRUCTION BOOK(DANISH)	1	TH-42PHD6EX ⚠
	TQBC0605	INSTRUCTION BOOK(SWEDISH)	1	TH-42PHD6EX ⚠
	TQBC0606	INSTRUCTION BOOK(ENGLISH)	1	TH-42PHD6BX ⚠
	TSXL139	CABLE	8	
	TSXL214	CABLE (D-C4)	1	
	TSXL216	CABLE	8	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	TSXL222	CABLE (C-C)	2	
	TSXL289	CABLE (D-C3)	1	
	TSXL290	CABLE (D-C4)	1	
	TSXL308	CABLE (D-C2)	1	
10	TTEA0138	ESCUTCHEON	1	TH-42PHD6BX/EX/UY ⚠
10	TTEA0139	ESCUTCHEON	1	TH-42PHW6EX ⚠
11	TTUA0728	REAR COVER	1	TH-42PHD6UY ⚠
11	TTUA0729	REAR COVER	1	TH-42PHD6BX/EX ⚠
11	TTUA0731	REAR COVER	1	TH-42PHW6EX ⚠
12	TXFMZ020QBS	STAND POOL BRACKET	2	
	TXJSPL0QBS	SPEAKER REED(LEFT)	1	
	TXJSPR0QBS	SPEAKER REED(RIGHT)	1	
	XTB4+10A	SCREW	19	
	XTBT964	SCREW	2	
	XTS3+10J	SCREW	8	
	XTV3+6J	SCREW	2	
	XTW3+8T	SCREW	3	
	XYC3+FF8	SCREW	4	
	XYC4+FJ35FZ	SCREW	18	
	XYN3+C8	SCREW	2	
	XYN3+F10	SCREW	4	
	XYN3+F10FZ	SCREW	10	
	XYN3+F8	SCREW	2	
	XYN4+E8	SCREW	1	
	XYN5+C15	SCREW	6	
	XYN8+F20FZ	SCREW	4	
	XZBT6506	POLY BAG	1	

17. Replacement Parts List

17.1. Relpacement Parts List Notes

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Abbreviation of part name and description

1. Resistor

Example:

ERD25TJ104 C 100KOHM, J, 1/4W

Type Allowance

2. Capacitor

Example:

ECKF1H103ZF C 0.01UF, Z, 50V

Type Allowance

Type	Allowance
C : Carbon	F : ±1%
F : Fuse	G : ±2%
M : Metal Oxide	J : ±5%
Metal FIlm	K : ±10%
S : Solid	M : ±20%
W : Wire Wound	

Type	Allowance
C : Ceramic	C : ±0.25pF
E : Electrolytic	D : ±0.5pF
P : Polyester	F : ±1pF
Polyprop	G : ±3pF
lene	J : ±5pF
T : Tantalum	K : ±10pF
	L : ±15pF
	M : ±20pF
	P : +100%, -0%
	Z : +80%, -20%

17.2. Electrical Replacement List

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
F902	K5D312BK0012	FUSE	1	⚠
F900.901	K5Y802B00001	FUSE	2	⚠
C11	K1MN80B00002	CONNECTOR	1	
C12	K1MN20B00043	20P CONNECTOR	1	
C21	K1MN80B00002	CONNECTOR	1	
C22	K1MN20B00043	20P CONNECTOR	1	
C31	K1MN80B00002	CONNECTOR	1	
C32	K1KA12A00227	12P CONNECTOR	1	
C33	K1MN20B00043	20P CONNECTOR	1	
C41	K1MN80B00002	CONNECTOR	1	
C42	K1KA04A00199	4P CONNECTOR	1	
C43	K1MN20B00043	20P CONNECTOR	1	
C44	K1KA08A00232	8P CONNECTOR	1	
C802	EEUFC1E471	E 470UF, 25V	1	
C803	EEUFC1E331	E 330UF, 25V	1	
C805	EEUFC1C102	E 1000UF, 16V	1	
C806	EEUFC1A102	E 1000UF, 10V	1	
C807	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C808,09	ECQB1H103JF	P 0.01UF, J, 50V	2	
C810	EEUFC1E561	E 560UF, 25V	1	
C811	ECQB1H103JF	P 0.01UF, J, 50V	1	
C812	ECQB1H104JF	P 0.1UF, J, 50V	1	
C813	ECQB1H473JF	P 0.047UF, J, 50V	1	
C814	EEUFC0J152	E 1500UF, 6.3V	1	
C815	ECQB1H104JF	P 0.1UF, J, 50V	1	
C816	ECQB1H682JF3	P 6800PF, J, 50V	1	
C901	ECQU2A105BN9	P 1UF, 250V	1	⚠
C902-05	ECKCNA221KB7	C 220PF, M,	4	⚠
C906	ECQU2A224BN9	P 0.22UF, 250V	1	⚠
C912	ECQU2A105MGA	P 1UF, 250V	1	⚠
C913	EETHC2W101J	C 4700PF, Z,450V	1	
C914	ECQE6223KF	P 0.022UF, K,400V	1	
C915	ECA1HHG100	E 10UF, 50V	1	
C916	ECA1VHG470	E 47UF, 35V	1	
C917	ECQV1H104JM	P 0.1UF, J, 50V	1	
C918	ECA1HHG330	E 33UF, 50V	1	
C919	ECKD3D102KBP	C 1000PF, K, 2KV	1	
C920	ECKCNA221KB7	C 220PF, M,	1	⚠
C921	ECKD3A221KBP	C 220PF, K, 1KV	1	
C922	EEUFC1E272	E 2700UF, 25V	1	
C923	EEUFC1E152	E 1500UF, 25V	1	
C924	ECA1HHG010	E 1UF, 50V	1	
C925	ECA1HHG100	E 10UF, 50V	1	
C951	EEVHB1C470	E 47UF, 16V	1	
C952	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C953-58	EEVHB1C470	E 47UF, 16V	6	
C959,60	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C961	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C962-64	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C965	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C966	EEVHB1C470	E 47UF, 16V	1	
C967,68	ECJ1VF1H103Z	C 0.01UF, Z, 50V	2	
C969	EEVHB1C470	E 47UF, 16V	1	
C970	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C971	EEVHB1C470	E 47UF, 16V	1	
C972	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1001,02	ECJ1XC1H150J	C 15PF, J, 50V	2	
C1003	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C1004	EECS5R5H155	E 1.5UF, 5.5V	1	
C1530	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C2312	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C2313	ECA1HHG470	E 47UF, 50V	1	
C2314	ECA1EHG470	E 47UF, 25V	1	
C2350,51	TCUY1C225KBM	C 2.2UF, 16V	2	F1K1C225A026
C2352,53	ECA1HHG100	E 10UF, 50V	2	
C2354,55	ECA1VM470	E 47UF, 35V	2	
C2356,57	ECJ2XB1H102K	C 1000PF, K, 50V	2	
C2358,59	ECA1HM2R2	E 2.2UF, 50V	2	
C2360,61	ECJ2XC1H102J	C 1000PF, J, 50V	2	
C2362,63	ECA1EM471	E 470UF, 25V	2	
C2364,65	ECQV1H104JM	P 0.1UF, J, 50V	2	
C2366,67	ECQV1H225JM	P 2.2UF, J, 50V	2	
C2368,69	ECQV1H104JM	P 0.1UF, J, 50V	2	
C2370	ECA1VM470	E 47UF, 35V	1	
C2417	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C2419	ECA1HHG100	E 10UF, 50V	1	
C2422	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C2423	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C2426	ECJ2XB1H153K	C 0.015UF, K, 50V	1	
C2427	ECA1HHG100	E 10UF, 50V	1	
C2429	EEAGA1C101	E 100UF, 16V	1	
C2431	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C2433	ECJ2XB1H393K	C 0.039UF, K, 50V	1	
C2434	ECJ2XB1H223K	C 0.022UF, K, 50V	1	
C2435	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C2436	ECJ3XB1C105K	C 1UF, K, 16V	1	
C2437,38	EEAGA1C101	E 100UF, 16V	2	
C2440,41	ECJ3XF1C475Z	C 4.7UF, Z, 16V	2	
C2442	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C2450	ECA1HHG100	E 10UF, 50V	1	
C2451	ECA1HHG4R7	E 4.7UF, 50V	1	
C2452	ECJ2XB1H562K	C 5600PF, K, 50V	1	
C2453	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2454	ECA1HHG4R7	E 4.7UF, 50V	1	
C2457	ECA1HHG4R7	E 4.7UF, 50V	1	
C2458	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C2459	ECJ3XB1C105K	C 1UF, K, 16V	1	
C2460	ECJ2XB1H473K	C 0.047UF, K, 50V	1	
C2461	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C2463	ECJ2XB1H473K	C 0.047UF, K, 50V	1	
C2466,67	ECJ3XB1C105K	C 1UF, K, 16V	2	
C2480	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C2484	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C3001	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3002	ECJ2XB1E104K	C 0.1UF, K, 25V	1	
C3003	EEVHP1A100	E 10UF, 10V	1	
C3004	EEVHB1C470	E 47UF, 16V	1	(J)
C3004	EEVHP1A100	E 10UF, 10V	1	(HY)
C3005	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3005	ECJ2VF1C105Z	C 1UF, Z, 16V	1	(J)
C3006	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3006	ECJ2VF1C105Z	C 1UF, Z, 16V	1	(J)
C3007	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3007	EEVHB1C470	E 47UF, 16V	1	(J)
C3008	ECJ1VF1H104Z	C 0.1UF, Z, 50V	1	
C3009	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(J)
C3009	EEVHB1C470	E 47UF, 16V	1	(HY)
C3010	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3011	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(J)
C3011	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3012	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	(J)
C3012	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3013	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	(J)
C3013	ECJ2VF1C105Z	C 1UF, Z, 16V	1	(HY)
C3014	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	(J)
C3014	EEVHB1C470	E 47UF, 16V	1	(HY)
C3015	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	(J)
C3015	ECJ1XC1H470J	C 47PF, J, 50V	1	(HY)
C3016	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	(J)
C3016	ECJ1XC1H220J	C 22PF, J, 50V	1	(HY)
C3017	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	(J)
C3017	ECJ1XC1H680J	C 68PF, J, 50V	1	(HY)
C3018	EEVHB1C470	E 47UF, 16V	1	
C3019	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3019	F1K0J3350002	OR F1K0J3350001,ECJ3YB0J	1	(HY)
C3020	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026
C3021	ECJ2VF1C105Z	C 1UF, Z, 16V	1	(HY)
C3021	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026 (J)
C3022	ECJ1VF1A105Z	C 1UF, Z, 10V	1	(HY)
C3022-31	TCUY1C225KBM	C 2.2UF, 16V	10	F1K1C225A026 (J)
C3032	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3040,41	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C3051-54	ECJ1XC1H561J	C 560PF, J, 50V	4	
C3055,56	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C3101	EEVHB0G221	E 220UF, 4V	1	
C3102	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3103	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C3104	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3104,05	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	(J)
C3105	EEVHB0G221	E 220UF, 4V	1	(HY)
C3106	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3106	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026 (J)
C3107	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3107	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3108	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3108	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026 (J)
C3109	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3109	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3110	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3110	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3111	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3111	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3112	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3112	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3113	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3113	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026 (J)
C3114	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3114	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	(J)
C3115	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3115	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3116	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3116	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3117	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3117	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3118	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3118	EEVHB1C470	E 47UF, 16V	1	(J)
C3119-21	ECJ1XB1C104K	C 0.1UF, Z, 16V	3	
C3122	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C3123-26	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C3127	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3128-02	ECJ1XB1C104K	C 0.1UF, Z, 16V	7	
C3134	EEVHB1C471	E 470UF, 16V	1	
C3135	ECJ1VB1C103K	C 0.01UF, K, 16V	1	(HY)
C3135	EEVHB1C471	E 470UF, 16V	1	(J)
C3136	ECJ1XC1H330J	C 33PF, J, 50V	1	(HY)
C3136	EEVHB1C471	E 470UF, 16V	1	(J)
C3137	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3138	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C3139	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3140	ECJ1XC1H101J	C 100PF, J, 50V	1	
C3141	ECJ1XB0J105K	C 1UF, K, 16V	1	(HY)
C3141	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026 (J)
C3142	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3142,43	TCUY1C225KBM	C 2.2UF, 16V	2	F1K1C225A026 (J)
C3144	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3144	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026 (J)
C3146	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3147	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C3148	ECJ1XB0J105K	C 1UF, K, 16V	1	
C3149	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3150	ECJ1VB1C103K	C 0.01UF, K, 16V	1	
C3151	ECJ1XC1H330J	C 33PF, J, 50V	1	
C3152	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3153	ECJ1XC1H101J	C 100PF, J, 50V	1	
C3154	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3156	ECJ1XB0J105K	C 1UF, K, 16V	1	
C3157	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C3158	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3159	EEVHB0G221	E 220UF, 4V	1	
C3160,61	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C3162-66	ECJ1VF1A105Z	C 1UF, Z, 10V	5	
C3167-78	ECJ1XB1C104K	C 0.1UF, Z, 16V	12	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3179	EEVHB0G221	E 220UF, 4V	1	
C3180-83	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C3184	EEVHB0G221	E 220UF, 4V	1	
C3185	ECJ1XC1H060D	C 6PF, D, 50V	1	
C3186	ECJ1XC1H470J	C 47PF, J, 50V	1	
C3187	EEVHB0G221	E 220UF, 4V	1	
C3188	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C3200,01	ECJ2VF1C105Z	C 1UF, Z, 16V	2	(J)
C3202	ECJ1VF1A105Z	C 1UF, Z, 10V	1	(HY)
C3202	ECJ2VF1C105Z	C 1UF, Z, 16V	1	(J)
C3203	ECJ1VF1A105Z	C 1UF, Z, 10V	1	(HY)
C3203	ECJ2VF1E104Z	C 0.1UF, Z, 25V	1	(J)
C3204	ECJ1VF1A105Z	C 1UF, Z, 10V	1	(HY)
C3204	ECJ2VF1C105Z	C 1UF, Z, 16V	1	(J)
C3205	ECJ1VF1A105Z	C 1UF, Z, 10V	1	(HY)
C3205	ECJ2VF1C105Z	C 1UF, Z, 16V	1	(J)
C3206	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C3207	EEVHB0G221	E 220UF, 4V	1	
C3208-14	ECJ1VF1A105Z	C 1UF, Z, 10V	7	
C3216,17	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C3218	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3219	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C3251,52	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	(J)
C3253	ECJ1XB1H102K	C 1000UF, Z, 50V	1	(HY)
C3253	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026 (J)
C3254	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3254	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3255	ECJ1XB1H102K	C 1000UF, Z, 50V	1	(HY)
C3255	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026 (J)
C3256	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3256	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3257	ECJ1XB1H102K	C 1000UF, Z, 50V	1	(HY)
C3257	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3258	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3258	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3259	ECJ1XB1H102K	C 1000UF, Z, 50V	1	(HY)
C3259	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3260	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3260	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026 (J)
C3261	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	(J)
C3261	EEVHB0G221	E 220UF, 4V	1	(HY)
C3262	ECJ1XB1H102K	C 1000UF, Z, 50V	1	(HY)
C3262	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3263	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3263	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3264	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3264	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	(J)
C3265	EEVHB0G221	E 220UF, 4V	1	(HY)
C3265	EEVHB1C470	E 47UF, 16V	1	(J)
C3266	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	(HY)
C3266-68	EEVHB1C471	E 470UF, 16V	3	(J)
C3308	EEVHB0G221	E 220UF, 4V	1	
C3309	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C3311,12	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3313	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C3315	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C3316	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3317	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C3318-21	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C3322,23	EEVHB0G221	E 220UF, 4V	2	
C3324	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C3325,26	EEVHB1C470	E 47UF, 16V	2	
C3327-30	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C3401	EEVHP1C100R	E 10UF, 16V	1	
C3404	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3405	EEVHB1C470	E 47UF, 16V	1	
C3409	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3507,08	ECJ3XB0J106M	C 10UF, M,6.3V	2	
C3510,11	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C3520	EEVHB1C470	E 47UF, 16V	1	
C3521	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3523	EEVHB1C470	E 47UF, 16V	1	(HX)
C3523	EEVHB1C470	E 47UF, 16V	1	(HY)
C3524	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	(HY)
C3524	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	(HX)
C3525,26	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C3527	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C3550	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C3551	EEVHB1C470	E 47UF, 16V	1	
C3561,62	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C6401-06	ECJ2VF1C105Z	C 1UF, Z, 16V	6	
C6407	ECJ2XB1H222K	C 2200PF, K, 50V	1	
C6408	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C6417-20	F1L2E1040002	E 1000UF, 25V	4	
C6421-26	ECJ2VF1C105Z	C 1UF, Z, 16V	6	
C6427	ECJ2XB1H222K	C 2200PF, K, 50V	1	
C6428	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C6432	ECJ2XB1H472K	C 4700PF, K, 50V	1	
C6433	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6434	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6435	EEUFC1E221	E 220UF, 25V	1	
C6436	ECA1HM221	E 220UF, 50V	1	
C6437	ECJ2XB1H104K	C 0.1UF, K, 50V	1	(SC)
C6437-40	F1L2E1040002	E 1000UF, 25V	4	(SD)
C6452	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6453	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6454	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6455	EEUFC1E221	E 220UF, 25V	1	
C6456	ECA2CM101	E 100UF, 160V	1	
C6458	F1L1E4750004	C 4.7UF, 25V	1	
C6459	EEUFC1E470	E 47UF, 25V	1	
C6461	ECA1HM101	E 100UF, 50V	1	
C6462,63	F1L1E4750004	C 4.7UF, 25V	2	
C6465	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C6466,67	F1L1E4750004	C 4.7UF, 25V	2	
C6472	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6473	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6474	ECJ2XB1H103K	C 0.01UF, K, 50V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C6475	EEUFC1E221	E 220UF, 25V	1	
C6476	ECA2CM101	E 100UF, 160V	1	
C6490	F1K2J222A014	C 2200UF, K,6.3V	1	
C6492	EEUED2V100	E 10UF,	1	
C6493	ECJ3XB2J222K	C 2200PF, K,630V	1	
C6501-08	ECJ2VF1C105Z	C 1UF, Z, 16V	8	
C6509	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C6510-12	F1L1E4750004	C 4.7UF, 25V	3	
C6513	ECA2CM101	E 100UF, 160V	1	
C6514	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6515,16	F1L1E4750004	C 4.7UF, 25V	2	
C6517	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6521	F1L1E4750004	C 4.7UF, 25V	1	
C6522	ECA1VM470	E 47UF, 35V	1	
C6524,25	ECJ3FC2D102J	C 1000PF, J,200V	2	
C6526	ECA2EHG470	E 47UF, 250V	1	
C6541,42	F1L1E4750004	C 4.7UF, 25V	2	
C6543-45	ECJ3FC2D102J	C 1000PF, J,200V	3	
C6546	F1L1E4750004	C 4.7UF, 25V	1	
C6550	ECA2CM101	E 100UF, 160V	1	
C6571	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6575-78	ECJ2VF1C105Z	C 1UF, Z, 16V	4	
C6580,81	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C6584	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6585	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6598	ECA2CM101	E 100UF, 160V	1	
C6600	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6601-06	ECA2DHG221	E 220UF, 200V	6	
C6607	ECWF2205JS	P 2UF, 250V	1	
C6609	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6610	EEUFC1E221	E 220UF, 25V	1	
C6611-14	F1K2J222A014	C 2200UF, K,6.3V	4	
C6619	F1K2J222A014	C 2200UF, K,6.3V	1	
C6621,22	F1L1E4750004	C 4.7UF, 25V	2	
C6623	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6625	F1K2J222A014	C 2200UF, K,6.3V	1	
C6628	F1K2J222A014	C 2200UF, K,6.3V	1	
C6631	F1K2J222A014	C 2200UF, K,6.3V	1	
C6639	F1L2E1040002	E 1000UF, 25V	1	
C6640	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6641,42	F1L1E4750004	C 4.7UF, 25V	2	
C6650,51	F1L1E4750004	C 4.7UF, 25V	2	
C6652	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6679,80	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C6681,82	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C6683,84	EEUFC1E470	E 47UF, 25V	2	
C6701	ECWF2205JS	P 2UF, 250V	1	
C6702	ECWF2205JS	P 2UF, 250V	1	
C6704	ECWF2205JS	P 2UF, 250V	1	
C6705	ECWF2205JS	P 2UF, 250V	1	
C6709	F1L2E1040002	E 1000UF, 25V	1	
C6711-14	ECA2DHG221	E 220UF, 200V	4	
C6715	ECWF2205JS	P 2UF, 250V	1	
C6717	ECJ3YB1E105K	C 1UF, K, 25V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C6718	EEUFC1E221	E 220UF, 25V	1	
C6720	EEUFC1E221	E 220UF, 25V	1	
C6721	F2A1E101A089	E 100UF 25V	1	
C6722,23	ECA2CM101	E 100UF, 160V	2	
C6724	ECA2DHG221	E 220UF, 200V	1	
C6726	EEUFC1E561	E 560UF, 25V	1	
C6727	F1K2J222A014	C 2200UF, K,6.3V	1	
C6729	F1K2J222A014	C 2200UF, K,6.3V	1	
C6731	F1K2J222A014	C 2200UF, K,6.3V	1	
C6733	F1K2J222A014	C 2200UF, K,6.3V	1	
C6743,44	ECA2DHG221	E 220UF, 200V	2	
C6747,48	F1L1E4750004	C 4.7UF, 25V	2	
C6749	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6750,51	F1L1E4750004	C 4.7UF, 25V	2	
C6752	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6753	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6755	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6756,57	F1L1E4750004	C 4.7UF, 25V	2	
C6758-61	ECJ3YB1E105K	C 1UF, K, 25V	4	
C6762-64	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C6771	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C6784	ECJ3XB2J222K	C 2200PF, K,630V	1	
C6804-07	F1K2J222A014	C 2200UF, K,6.3V	4	
C7101	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7102	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C7103-06	ECJ2VF1C105Z	C 1UF, Z, 16V	4	
C7107	F1K2A1040004	C 0.1UF, 100V	1	
C7111	F1K2A1040004	C 0.1UF, 100V	1	
C7113	F1K2A1040004	C 0.1UF, 100V	1	
C7115	F1K2A1040004	C 0.1UF, 100V	1	
C7150-52	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C7153-56	ECJ1XC1H101J	C 100PF, J, 50V	4	
C7171	F1K2A1040004	C 0.1UF, 100V	1	
C7176-78	ECJ3XB0J106M	C 10UF, M,6.3V	3	
C7179	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7301	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7302	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C7303	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7307	F1K2A1040004	C 0.1UF, 100V	1	
C7311	F1K2A1040004	C 0.1UF, 100V	1	
C7313	F1K2A1040004	C 0.1UF, 100V	1	
C7317	F1K2A1040004	C 0.1UF, 100V	1	
C7319	F1K2A1040004	C 0.1UF, 100V	1	
C7321-23	ECJ3XB0J106M	C 10UF, M,6.3V	3	
C7350-52	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C7353-56	ECJ1XC1H101J	C 100PF, J, 50V	4	
C7370-73	ECJ2VF1C105Z	C 1UF, Z, 16V	4	
C7501	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7502	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C7503,04	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C7506	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7507	F1K2A1040004	C 0.1UF, 100V	1	
C7510	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7511	F1K2A1040004	C 0.1UF, 100V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7513	F1K2A1040004	C 0.1UF, 100V	1	
C7517	F1K2A1040004	C 0.1UF, 100V	1	
C7519	F1K2A1040004	C 0.1UF, 100V	1	
C7550-52	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C7553-56	ECJ1XC1H101J	C 100PF, J, 50V	4	
C7572-74	ECJ3XB0J106M	C 10UF, M,6.3V	3	
C7575	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7606	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7701	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C7702	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C7703-06	ECJ2VF1C105Z	C 1UF, Z, 16V	4	
C7707	F1K2A1040004	C 0.1UF, 100V	1	
C7711	F1K2A1040004	C 0.1UF, 100V	1	
C7713	F1K2A1040004	C 0.1UF, 100V	1	
C7715	F1K2A1040004	C 0.1UF, 100V	1	
C7717	F1K2A1040004	C 0.1UF, 100V	1	
C7750-52	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C7772-74	ECJ3XB0J106M	C 10UF, M,6.3V	3	
C7775-79	ECJ1XC1H101J	C 100PF, J, 50V	5	
C8001,02	EEVHB1C470	E 47UF, 16V	2	
C8003,04	ECJ1VF1H104Z	C 0.1UF, Z, 50V	2	
C8005,06	ECJ1VF1H103Z	C 0.01UF, Z, 50V	2	
C8007,08	ECJ1VB1H471K	C 470PF, K, 50V	2	
C8009	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C8011	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C8013,14	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C8015	ECJ3YF1A106Z	C 10UF, Z, 10V	1	
C8016	F1K1C4750018	OR ECJ3YB1A475K	1	
C8017	ECJ3YF1A106Z	C 10UF, Z, 10V	1	
C8018	F1K1C4750018	OR ECJ3YB1A475K	1	
C8019,20	ECJ1VB1H103K	C 0.01UF, K, 50V	2	
C8021,22	ECJ3VB1C474K	C 0.47UF, K, 16V	2	
C8023-26	ECJ1VB1H103K	C 0.01UF, K, 50V	4	
C8027	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026
C8029	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C8030	EEVHB1C470	E 47UF, 16V	1	
C8031	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C8032	EEVHB1C470	E 47UF, 16V	1	
C8033,34	ECJ1XC1H102J	C 1000PF, J, 50V	2	
C8035	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C8036,37	ECJ1XC1H101J	C 100PF, J, 50V	2	
C8038,39	ECJ2XC1H102J	C 1000PF, J, 50V	2	
C8041	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026
C8043	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C8045,46	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C8049,50	ECJ2VF1H103Z	C 0.01UF, Z, 50V	2	
C8051	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C8070	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C8071	EEVHB1C470	E 47UF, 16V	1	
C8072,73	ECJ3YF1A106Z	C 10UF, Z, 10V	2	
C9001	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9002	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9003	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9004	ECJ3XB0J106M	C 10UF, M,6.3V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C9005,06	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9007-10	EEVHB0G221	E 220UF, 4V	4	
C9011-14	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C9016,17	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C9020	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9022	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9023	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9027	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9028	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9029	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9030,31	ECJ3XB0J106M	C 10UF, M,6.3V	2	
C9032,33	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9034,35	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C9036,37	ECJ3XB0J106M	C 10UF, M,6.3V	2	
C9038,39	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9040	ECJ2VB1E473K	C 0.047UF, K, 25V	1	
C9041	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9042,43	ECJ2VB1E473K	C 0.047UF, K, 25V	2	
C9044	ECJ1XB1H102K	C 1000UF, Z, 50V	1	
C9045,46	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9048,49	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9050	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9051	ECJ1XB1C393K	C 0.039UF, K, 16V	1	
C9052	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9053	ECJ1VB1H392K	C 3900PF, K, 50V	1	
C9054-56	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9057	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9058	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9059	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9060	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9061,62	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9063-66	EEVHB0G221	E 220UF, 4V	4	
C9067-70	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C9072,73	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C9076,77	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9078	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9080	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9084	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9085	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9086	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9087	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9088,89	ECJ3XB0J106M	C 10UF, M,6.3V	2	
C9090,91	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9092,93	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C9094,95	ECJ3XB0J106M	C 10UF, M,6.3V	2	
C9096,97	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9098	ECJ2VB1E473K	C 0.047UF, K, 25V	1	
C9099	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9100,01	ECJ2VB1E473K	C 0.047UF, K, 25V	2	
C9102	ECJ1XB1H102K	C 1000UF, Z, 50V	1	
C9103	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9105-07	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9108	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9109	ECJ1XB1C393K	C 0.039UF, K, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C9110	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9111	ECJ1VB1H392K	C 3900PF, K, 50V	1	
C9112-14	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9151	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9152	EEVHB0J330	E 33UF, 6.3V	1	
C9153	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9154	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9155	EEVHB1C470	E 47UF, 16V	1	
C9156	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9157-60	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C9161	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9162	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9163-70	ECJ1XF1C104Z	C 0.1UF, Z, 16V	8	
C9171	EEVHB0G221	E 220UF, 4V	1	
C9172-74	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9175	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9176-82	ECJ1XF1C104Z	C 0.1UF, Z, 16V	7	
C9187	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9191	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9192	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C9195	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C9196	ECJ3XB1C105K	C 1UF, K, 16V	1	
C9197	ECJ2VB1E563K	C 0.056UF, K, 25V	1	
C9198	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C9199,00	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9301	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9302	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9303	EEVHB1C470	E 47UF, 16V	1	
C9304	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9305	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9307	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9308	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9309	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9310	ECJ1XC1H330J	C 33PF, J, 50V	1	
C9311	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9312,13	ECJ1XC1H330J	C 33PF, J, 50V	2	
C9314,15	ECJ3XF1C475Z	C 4.7UF, Z, 16V	2	
C9316,17	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9318	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9319	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9321	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9323	ECJ1XC1H101J	C 100PF, J, 50V	1	
C9324	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9325	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9327	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9328-30	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9331	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9332-35	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C9338-46	ECJ1XF1C104Z	C 0.1UF, Z, 16V	9	
C9347	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9449	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9450	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9453	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9454,55	ECJ3XF1C475Z	C 4.7UF, Z, 16V	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C9458	ECJ1XC1H331J	C 330PF, J, 50V	1	
C9460,61	ECJ1XC1H100D	C 10PF, D, 50V	2	
C9464	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C9465	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9466	EEVHB0G221	E 220UF, 4V	1	
C9467	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9469	EEVHB0G221	E 220UF, 4V	1	
C9470	ECJ1XC1H101J	C 100PF, J, 50V	1	
C9471	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9472	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9474	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9475-77	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9478	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9479-82	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C9485-93	ECJ1XF1C104Z	C 0.1UF, Z, 16V	9	
C9494,95	ECJ3XF1C475Z	C 4.7UF, Z, 16V	2	
C9496,97	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9498	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9596-99	ECJ1VF1H103Z	C 0.01UF, Z, 50V	4	
C9601-09	ECJ1XF1C104Z	C 0.1UF, Z, 16V	9	
C9611	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9612	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9613	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9615-25	ECJ1XF1C104Z	C 0.1UF, Z, 16V	11	
C9629-38	ECJ1XF1C104Z	C 0.1UF, Z, 16V	10	
C9640,41	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9700,01	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9702	EEVHB1C470	E 47UF, 16V	1	
C9703	ECJ1XC1H101J	C 100PF, J, 50V	1	
C9705	ECJ1XF1H102Z	C 1000PF, Z, 50V	1	
C9706,07	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9708-10	EEVHB1C470	E 47UF, 16V	3	
C9712-17	ECJ1XC1H101J	C 100PF, J, 50V	6	
C9718	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9719	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9720	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9722,23	ECJ1XC1H100D	C 10PF, D, 50V	2	
C9724	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9725	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9726	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9727,28	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9729	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9730-33	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C9737	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9740,41	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9742	EEVHB1C470	E 47UF, 16V	1	
C9743	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C9748,49	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9750	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9751,52	ECJ1VF1H103Z	C 0.01UF, Z, 50V	2	
C9753,54	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9755,56	ECJ1XF1H102Z	C 1000PF, Z, 50V	2	
C9759	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9760	ECJ1VB1C563K	C 0.056UF, K, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C9761,62	ECJ1XC1H330J	C 33PF, J, 50V	2	
C9765	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9766	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9767,68	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C9769	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9774,75	ECJ1XC1H330J	C 33PF, J, 50V	2	
C9951-53	EEVHB1C470	E 47UF, 16V	3	
C9954,55	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9956	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9957	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9958,59	F2H1E221A007	E 2.2UF, 25V	2	
C9960	ECJ3VB1C104K	C 0.10UF, K, 16V	1	
C9961	EEFUD0G121ER	120UF	1	
C9964,65	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9966	EEVHB0G221	E 220UF, 4V	1	
C9967	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C9968	EEVHB1C470	E 47UF, 16V	1	
C9969	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9970	ECJ2XB1E104K	C 0.1UF, K, 25V	1	
C9971	ECJ2XC1H222J	C 2200PF, J, 50V	1	
CA1-A8	K1MN80B00004	80P CONNECTOR	8	
CB1-B8	K1MN80B00004	80P CONNECTOR	8	
D3	K1KA40A00140	40P CONNECTOR	1	
D4	K1KA12A00227	12P CONNECTOR	1	
D5	K1KA31A00003	31P CONNECTOR	1	
D6	K1KA21A00007	21P CONNECTOR	1	
D10	K1KA12A00254	12P CONNECTOR	1	
D12	K1KA07A00189	7P CONNECTOR	1	
D20	K1KA20A00180	20P CONNECTOR	1	
D25	K1KA08A00293	8P CONNECTOR	1	
D27	K1KA09A00077	9P CONNECTOR	1	
D31-34	K1MN80B00002	CONNECTOR	4	
D802,03	M1FS4	DIODE	2	
D804	B0JCPD000010	DIODE	1	
D806,07	B0BC01000028	DIODE	2	
D901	ERZV10V621P2	VARISTOR	1	⚠
D902	D4SB80	DIODE	1	B0EBNT000002 ⚠
D903	EG01C	DIODE	1	B0HAGV000004
D904	M1FL20U4063	DIODE	1	B0HCMM000009
D906	TMPG10G3	DIODE	1	B0BA01000046
D907	PC123FY2	PHOTO COUPLER	1	B3P(J)0000012 ⚠
D920	B0HFRJ000012	DIODE	1	
D921	B0BA02000024	DIODE	1	
D922	MA152K	DIODE	1	MA3X152K
D923	LNJ201LPQJA	LED	1	
D1001	MA111	DIODE	1	MA2J111
D1550	LNJ107W5PRW	LED	1	
D1551-53	MA8056M	ZENER DIODE	3	MAZ80560M
D2301,02	M1FS4	DIODE	2	
D2308	MA152	DIODE	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D2316,17	M1FS4	DIODE	2	
D3001	MA111	DIODE	1	MA2J111
D3001	MA2J72900L	DIODE	1	
D3002	MA3100L	ZENER DIODE	1	
D3003,04	MA111	DIODE	2	MA2J111
D3021	MA111	DIODE	1	MA2J111
D3024	MA111	DIODE	1	MA2J111
D3351,52	MA153	DIODE	2	MA3X153
D3501-04	MA3056M	ZENER DIODE	4	MAZ30560M
D3507-10	MA8160H	ZENER DIODE	4	MAZ81600H
D6401,02	MA8056H	ZENER DIODE	2	MAZ80560H
D6403,04	D1FL40F4063	DIODE	2	B0ECHP000001
D6411,12	MA8056H	ZENER DIODE	2	MAZ80560H
D6413,14	D1FL40F4063	DIODE	2	B0ECHP000001
D6433	MA111	DIODE	1	MA2J111
D6435	MA111	DIODE	1	MA2J111
D6436	B0JCKG000001	DIODE	1	
D6453	MA111	DIODE	1	MA2J111
D6454	TLP181	PHOTO COUPLER	1	B3PBA0000081
D6455	MA111	DIODE	1	MA2J111
D6456	D1FL40F4063	DIODE	1	B0ECHP000001
D6458	TLP181	PHOTO COUPLER	1	B3PBA0000081
D6459	MA111	DIODE	1	MA2J111
D6460,61	B0HCKS000001	DIODE	2	
D6465,66	MA8330M	ZENER DIODE	2	MAZ83300M
D6467	TLP181	PHOTO COUPLER	1	B3PBA0000081
D6468	MA111	DIODE	1	MA2J111
D6469	TLP181	PHOTO COUPLER	1	B3PBA0000081
D6470	MA111	DIODE	1	MA2J111
D6473	MA111	DIODE	1	MA2J111
D6474	TLP181	PHOTO COUPLER	1	B3PBA0000081
D6475	MA111	DIODE	1	MA2J111
D6476	D1FL40F4063	DIODE	1	B0ECHP000001
D6478	B0HCKS000001	DIODE	1	
D6479	MA111	DIODE	1	MA2J111
D6480	TLP181	PHOTO COUPLER	1	B3PBA0000081
D6481,82	MA8330M	ZENER DIODE	2	MAZ83300M
D6483	M1FS4	DIODE	1	
D6485-90	MA8056H	ZENER DIODE	6	MAZ80560H
D6491,92	D1FL40F4063	DIODE	2	B0ECHP000001
D6493,94	MA8056H	ZENER DIODE	2	MAZ80560H
D6495	B0HCKS000001	DIODE	1	
D6499	M1FS4	DIODE	1	
D6501-08	K7GBZEE00006	DIODE	8	
D6509	MA111	DIODE	1	MA2J111
D6510	M1FS4	DIODE	1	
D6511	M1FL20U4063	DIODE	1	B0HCMM000009
D6512-14	MA111	DIODE	3	MA2J111
D6515	MA8240M	ZENER DIODE	1	MAZ82400M
D6517,18	M1FS4	DIODE	2	
D6520	MA111	DIODE	1	MA2J111
D6521	D1FL40F4063	DIODE	1	B0ECHP000001
D6522	MA111	DIODE	1	MA2J111
D6523	D1FL40F4063	DIODE	1	B0ECHP000001

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D6524	MA8051L	ZENER DIODE	1	MAZ80510L
D6525	MA111	DIODE	1	MA2J111
D6526	M1FL20U4063	DIODE	1	B0HCMM000009
D6531,32	MA8051L	ZENER DIODE	2	MAZ80510L
D6541	B0HCKS000001	DIODE	1	
D6542	MA111	DIODE	1	MA2J111
D6543	MA8051L	ZENER DIODE	1	MAZ80510L
D6544	MA111	DIODE	1	MA2J111
D6545	MA8051L	ZENER DIODE	1	MAZ80510L
D6546-48	MA8330M	ZENER DIODE	3	MAZ83300M
D6549,50	MA111	DIODE	2	MA2J111
D6552	M1FS4	DIODE	1	
D6553	MA111	DIODE	1	MA2J111
D6570	M1FL20U4063	DIODE	1	B0HCMM000009
D6572	D1FL40F4063	DIODE	1	B0ECHP000001
D6582	MA8051L	ZENER DIODE	1	MAZ80510L
D6583	LNJ201LPQJA	LED	1	
D6584	MA111	DIODE	1	MA2J111
D6585,86	MA8330M	ZENER DIODE	2	MAZ83300M
D6600	D1FL40F4063	DIODE	1	B0ECHP000001
D6605-08	M1FS4	DIODE	4	
D6611	D1FL40F4063	DIODE	1	B0ECHP000001
D6613	D1FL40F4063	DIODE	1	B0ECHP000001
D6615-18	SF20LC30F10	DIODE	4	
D6623	SF20LC30F10	DIODE	1	
D6627	SF20LC30F10	DIODE	1	
D6649	D1FL40F4063	DIODE	1	B0ECHP000001
D6650	SF20LC30F10	DIODE	1	
D6651	D1FL40F4063	DIODE	1	B0ECHP000001
D6701	SF20LC30F10	DIODE	1	
D6710	D1FL40F4063	DIODE	1	B0ECHP000001
D6711,12	SF20LC30F10	DIODE	2	
D6713	D1FL40F4063	DIODE	1	B0ECHP000001
D6715,16	SF20LC30F10	DIODE	2	
D6728,29	SF20LC30F10	DIODE	2	
D6734-37	M1FS4	DIODE	4	
D6740	D1FL40F4063	DIODE	1	B0ECHP000001
D6749,50	M1FS4	DIODE	2	
D6751-53	D1FL40F4063	DIODE	3	B0ECHP000001
D6756	M1FS4	DIODE	1	
D6758,59	MA8330M	ZENER DIODE	2	MAZ83300M
D6760	LNJ201LPQJA	LED	1	
D6761	MA8051L	ZENER DIODE	1	MAZ80510L
D6762,63	MA111	DIODE	2	MA2J111
D6764	LNJ201LPQJA	LED	1	
D6769	D1FL40F4063	DIODE	1	B0ECHP000001
D6771,72	MA111	DIODE	2	MA2J111
D6773	D1FL40F4063	DIODE	1	B0ECHP000001
D6795	D1FL40F4063	DIODE	1	B0ECHP000001
D7501-04	MA152K	DIODE	4	MA3X152K
D8001-04	MA111	DIODE	4	MA2J111
D8010,11	MA153	DIODE	2	MA3X153
D9001	MA3036H	ZENER DIODE	1	MAZ30360H
D9003	MA3036H	ZENER DIODE	1	MAZ30360H

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D9704	MA111	DIODE	1	MA2J111
D9705-13	MA3062M	ZENER DIODE	9	MAZ30620M
D9715	MA3062M	ZENER DIODE	1	MAZ30620M
D9716	MA111	DIODE	1	MA2J111
D9719,20	MA3062M	ZENER DIODE	2	MAZ30620M
D9723	MA3062M	ZENER DIODE	1	MAZ30620M
D9724	MA111	DIODE	1	MA2J111
D9727	MA152K	DIODE	1	MA3X152K
D9730	MA152K	DIODE	1	MA3X152K
D9769	MA152K	DIODE	1	MA3X152K
D9771	MA152K	DIODE	1	MA3X152K
D9952	M1FS4	DIODE	1	
D9953	MA152K	DIODE	1	MA3X152K
D9954	M1FS4	DIODE	1	
D9955	B0JCPD000010	DIODE	1	
F900-1,-2	EYF-52BC	FUSE HOLDER	2	
F901-1,-2	EYF-52BC	FUSE HOLDER	2	
F902-1,-2	EYF-52BC	FUSE HOLDER	2	
H0	K1KA08A00293	8P CONNECTOR	1	
H1,H2	K1KA80B00034	80P CONNECTOR	2	
H37	K1KA03A00171	3P CONNECTOR	1	
HX1	K1KB22A00036	20P CONNECTOR	1	
IC801	C0D(J)HG00008	IC	1	
IC802	C0D(J)HG00007	IC	1	
IC803	C0DBALH00002	IC	1	
IC901	MIP2E4DMY1TV	IC	1	
IC902	AN1431T	LINEAR IC	1	
IC951	PQ12SZ1T	IC	1	C0CBAKG00003
IC952	PQ09SZ1T	IC	1	C0CBAHG00005
IC1001	C1DB00000274	IC	1	
IC1550	B3L000000020	IC	1	
IC2301,02	LA4901	IC	2	C1BA00000278
IC2304	PQ09SZ1T	IC	1	C0CBAHG00005
IC2401	BH3865S	IC	1	C1BA00000302
IC3001	MC14052BF	IC	1	C0JBAR000021
IC3002	C0J(HY)R000002	IC	1	
IC3003	CXA1315M	LINEAR IC	1	C1AB00000440
IC3004	CXA1875AM	IC	1	C0F(HY)D000017
IC3005	C1AB00001139	IC	1	
IC3006	CXA1315M	LINEAR IC	1	C1AB00000440
IC3007	AHC2G66HDCTR	IC	1	C0JBAS000109
IC3101	C0DBEZG00004	IC	1	
IC3102	C0DBZLB00001	IC	1	
IC3103	C1AB00001826	IC	1	
IC3104	C0EBE0000066	IC	1	
IC3105	C0JBAZ001834	IC	1	
IC3108,09	AN78L05M	LINEAR IC	2	
IC3201	C1AB00001720	IC	1	(J)
IC3201 02	C3HBKZ000001	IC	1	(HY)
IC3251 02	C0ZBZ0000684	IC	1	(HY)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC3251	C1AB00001720	IC	1	(J)
IC3301	MM1065ZMR	LINEAR IC	1	C0CBA(HY)00029
IC3302	C0DBEZG00004	IC	1	
IC3303	AN80L25RMS	IC	1	
IC3305	JLC1562BFEL	IC	1	C0JBAZ000801
IC3311	C0J(HY)Z000285	IC	1	
IC3401	C0ABZA000028	IC	1	
IC3502	24LC21T-I/SN	IC	1	C3EBCC000020
IC3699	S-24C16AFJ	IC	1	C3EBGC000018
IC6401-12	C0HBC0000005	IC	12	
IC6431	AN1431M	LINEAR IC	1	
IC6434	TLP181	PHOTO COUPLER	1	B3PBA0000081
IC6451	AN1431M	LINEAR IC	1	
IC6452,53	AN78L15M	LINEAR IC	2	
IC6454,55	AN78L05M	LINEAR IC	2	
IC6471,72	AN1431M	LINEAR IC	2	
IC6491	AN1431M	LINEAR IC	1	
IC6501,02	TC74HC14AF	IC	2	C0JBAB000155
IC6511	C0ZBZ0000736	IC	1	
IC6512	AN78L05M	LINEAR IC	1	
IC6521	C0ZBZ0000736	IC	1	
IC6541,42	C0ZBZ0000736	IC	2	
IC6543	AN78L05M	LINEAR IC	1	
IC6581	AN6914S	LINEAR IC	1	
IC6601-03	C0ZBZ0000138	IC	3	
IC6604	TC74HC08AF	IC	1	C0JB(J)000084
IC6605,06	C0JBAZ000005	IC	2	
IC6701-04	C0ZBZ0000138	IC	4	
IC6705	C0ZBZ0000736	IC	1	
IC6706	C0JBAZ000005	IC	1	
IC6707	AN6914S	LINEAR IC	1	
IC6709	AN1431M	LINEAR IC	1	
IC7101	C0JBAZ001604	IC	1	
IC7105-07	C0JBAZ001604	IC	3	
IC7301	C0JBAZ001604	IC	1	
IC7305-07	C0JBAZ001604	IC	3	
IC7501	C0JBAZ001604	IC	1	
IC7505-07	C0JBAZ001604	IC	3	
IC7701	C0JBAZ001604	IC	1	
IC7705-07	C0JBAZ001604	IC	3	
IC8001,02	MC14052BF	IC	2	C0JBAR000021
IC8003,04	M52346SP	IC	2	C1(J)00000395
IC8005,06	TC74HC14AF	IC	2	C0JBAB000155
IC8007,08	TC4W53FEL	IC	2	C0JBAR000111
IC8009	AHC2G66HDCTR	IC	1	C0JBAS000109
IC8015	C0ZBZ0000205	IC	1	
IC8016	C0JBAZ001934	IC	1	
IC9001	C0CBCBD00008	IC	1	
IC9002	C0ZBZ0000551	IC	1	
IC9003	C0JBAB000550	IC	1	
IC9004	AHC2G66HDCTR	IC	1	C0JBAS000109
IC9005	C0JBAZ001992	IC	1	
IC9006,07	C0CBCBD00008	IC	2	
IC9008	C0JBAZ001992	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC9009	C0FBAD000069	IC	1	
IC9010	C0CBCBD00008	IC	1	
IC9011	C0ZBZ0000551	IC	1	
IC9012	C0JBAB000550	IC	1	
IC9013	AHC2G66HDCTR	IC	1	C0JBAS000109
IC9014	C0JBAZ000855	IC	1	
IC9015	C0JBAZ001992	IC	1	
IC9016,17	C0CBCBD00008	IC	2	
IC9018	C0JBAZ001992	IC	1	
IC9019	C0FBAD000069	IC	1	
IC9023	C0JBAZ000855	IC	1	
IC9151	MN845041-A	IC	1	
IC9152	C0CBCBD00008	IC	1	
IC9153	C0DBEZG00004	IC	1	
IC9154	C0JBAZ001604	IC	1	
IC9155	C3ABPJ000017	IC	1	
IC9157	TLC2933IPWL	IC	1	C0ABFA000012
IC9301	C1ZBZ0002358	IC	1	
IC9302	C0CBCBD00008	IC	1	
IC9303	C1ZBZ0002357	IC	1	
IC9304	C3ABPJ000043	IC	1	
IC9305	MN84510-A	IC	1	
IC9452	C0ZBZ0000423	IC	1	
IC9453	C0DBEZG00004	IC	1	
IC9454	C3ABPJ000043	IC	1	
IC9455	MN84510-A	IC	1	
IC9456	TVRJ954-1	IC	1	
IC9459	C0JBAZ001992	IC	1	
IC9601	C0JBAZ001604	IC	1	
IC9602	C0JBAZ000855	IC	1	
IC9603,04	C0JBAZ001604	IC	2	
IC9605	C1ZBZ0002329	IC	1	
IC9606	C0EBE0000066	IC	1	
IC9608	C0ZBZ0000764	IC	1	
IC9701	MN102L230	IC	1	
IC9702	C3EBJC000038	IC	1	
IC9703	C0JBAZ001604	IC	1	
IC9704	C3HAHC000006	IC	1	
IC9705	TVRJ953-1	IC	1	
IC9706	C0JBAZ000855	IC	1	
IC9707	C0JBAE000283	IC	1	
IC9708	S-24C16AFJ	IC	1	C3EBGC000018
IC9709	TVRJ950	IC	1	
IC9710	M51957BFP	IC	1	C0E(HY)0000024
IC9711	AHC2G66HDCTR	IC	1	C0JBAS000109
IC9951	C0DBAMH00006	IC	1	
IC9952	C0DBAFH00021	IC	1	
J3	K1KA40A00140	40P CONNECTOR	1	
J5	K1KA31B00004	31P CONNECTOR	1	
J6	K1KA21B00005	21P CONNECTOR	1	
J8	K1KA20A00180	20P CONNECTOR	1	
J10	K1KA06A00183	6P CONNECTOR	1	
J11-13	K1KB80B00023	80P CONNECTOR	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
J14	K1KA22A00067	22P CONNECTOR	1	
JK3001	K1CB106B0027	CONNECTOR	1	
JK3002	K1Q(HY)2AB0005	CONNECTOR	1	
JK3004	K2HA204B0097	JACK	1	
JK3303	K2HA204B0097	JACK	1	
JK3304	K1Q(HY)5AB0005	CONNECTOR	1	
JK3509	K1FB109B0058	CONNECTOR	1	
JK3511	K1FB115B0034	CONNECTOR	1	
JK3513	K2HC103B0105	JACK	1	
JK8500	K4BC02B00013	TERMINAL	1	
JS2301	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JS3301-12	ERJ3GEY0R00	M 0 OHM, 1/16W	12	
JS3501-03	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
JS3506-08	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
JS8092-97	J0JCC0000100	CHIP INDUCTOR	6	
L801	G1C101ZA0037	INDUCTION COIL	1	
L802	G1C121ZA0037	INDUCTION COIL	1	
L803	G1C680ZA0037	INDUCTION COIL	1	
L901,02	G0B123K00001	CHOKE COIL	2	⚠
L904	G0A100GA0013	CHOKE COIL	1	
L905	ELF17N011A	LINE FILTER	1	⚠
L906	EXCELDR35C	BEAD CHOKE	1	
L951-60	ELKE103FA	NOISE FILTER	10	
L1001	ELJPA100KB	CHIP INDUCTOR	1	
L2306	ELJPA100KB	CHIP INDUCTOR	1	
L2330,31	TAL10RP221LB	INDUCTION COIL	2	G0ZZ00001909
L3001	ELJPA100KB	CHIP INDUCTOR	1	(J)
L3001	J0HA(HY)000003	LC FILTER	1	(HY)
L3002	ELJPA100KB	CHIP INDUCTOR	1	(J)
L3002	J0HA(HY)000004	LC FILTER	1	(HY)
L3003	ELJPA100KB	CHIP INDUCTOR	1	(J)
L3003	J0HA(HY)000004	LC FILTER	1	(HY)
L3005	ELJPA100KB	CHIP INDUCTOR	1	(J)
L3005	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HY)
L3006	ELJPA100KB	CHIP INDUCTOR	1	(J)
L3006	J0E8004B0008	LCR FILTER	1	(HY)
L3007	G1C2R2K00006	INDUCTION COIL	1	
L3050	ELJPA100KB	CHIP INDUCTOR	1	
L3051,52	ELJNA1R5JF	COIL	2	
L3101-04	ELJPA100KB	CHIP INDUCTOR	4	
L3107	J0JGC0000021	CHIP INDUCTOR COIL	1	
L3108	ELJPA100KB	CHIP INDUCTOR	1	
L3201	ELJPA100KB	CHIP INDUCTOR	1	
L3251,52	ELJPA2R2MF	CHIP INDUCTOR	2	
L3303	ELJPA100KB	CHIP INDUCTOR	1	
L3305-08	ELKE103FA	NOISE FILTER	4	
L3507-09	J0HA(HY)000004	LC FILTER	3	
L3510,11	J0HA(HY)000003	EMI FILTER	2	
L3512	JJ0HA(HY)00000	EMI FILTER	1	
L3513-17	J0HA(HY)000003	EMI FILTER	5	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L3525	J0HA(HY)000003	LC FILTER	1	
L3526	ELJPA100KB	CHIP INDUCTOR	1	(HX)
L3526	J0HA(HY)000003	LC FILTER	1	(HY)
L3527-29	J0HA(HY)000004	LC FILTER	3	
L3530,31	J0HA(HY)000003	LC FILTER	2	
L3532,33	ELJPA100KB	CHIP INDUCTOR	2	
L3555	ELJPA100KB	CHIP INDUCTOR	1	
L6431	J0JJC0000021	CHIP INDUCTOR	1	
L6451	J0JJC0000021	CHIP INDUCTOR	1	
L6471	J0JJC0000021	CHIP INDUCTOR	1	
L6472	G0ZZ00002183	PEAKING COIL	1	
L6607	J0JJC0000021	CHIP INDUCTOR	1	
L6609	G0ZZ00002183	PEAKING COIL	1	
L6611,12	G0A1R0L00001	CHOKE COIL	2	
L6614,15	G0A1R0L00001	CHOKE COIL	2	
L6618-37	G0ZZ00002183	PEAKING COIL	20	
L6644,45	G0ZZ00002183	PEAKING COIL	2	
L6650,51	G0ZZ00002183	PEAKING COIL	2	
L6661,62	J0JJC0000011	CHIP INDUCTOR	2	
L6701,02	G0A1R0L00001	CHOKE COIL	2	
L6704,05	G0A1R0L00001	CHOKE COIL	2	
L6713	G0ZZ00002183	PEAKING COIL	1	
L6714	G0C101K00023	PEAKING COIL	1	
L6715-37	G0ZZ00002183	PEAKING COIL	23	
L6752-55	G0ZZ00002183	PEAKING COIL	4	
L6758,59	J0JJC0000021	CHIP INDUCTOR	2	
L6761,62	J0JJC0000011	CHIP INDUCTOR	2	
L7107	ELKE103FA	NOISE FILTER	1	
L7307,08	ELKE103FA	NOISE FILTER	2	
L7507,08	ELKE103FA	NOISE FILTER	2	
L7707	ELKE103FA	NOISE FILTER	1	
L8001-07	ELJPA100KB	CHIP INDUCTOR	7	
L8501,02	G0A2R5H00003	CHOKE COIL	2	
L9001-03	ELKE103FA	NOISE FILTER	3	
L9008-10	ELKE103FA	NOISE FILTER	3	
L9309	ELJFA1R0KF	CHIP COIL	1	
L9452	ELJFA1R0KF	CHIP COIL	1	
L9459	ELKE103FA	NOISE FILTER	1	
L9701	ELKE103FA	NOISE FILTER	1	
L9951-54	ELKE103FA	NOISE FILTER	4	
L9955	G1C470M00012	INDUCTOR COIL	1	
L9956	G1C1R5Z00002	INDUCTOR COIL	1	
PF1	K1KA03A00181	3P CONNECTOR	1	
PF9	K1KA03A00181	3P CONNECTOR	1	
PF10	K1KA06A00220	6P CONNECTOR	1	
Q903	2SD1328	TRANSISTOR	1	2SD132806
Q1540	2SD601A	TRANSISTOR	1	2SD0601A
Q2301-03	2SD601A	TRANSISTOR	3	2SD0601A
Q2305,06	2SD601A	TRANSISTOR	2	2SD0601A
Q2330,31	2SD1266A	TRANSISTOR	2	2SD1266AJ
Q2333,34	2SD601A	TRANSISTOR	2	2SD0601A
Q2370	2SB709A	TRANSISTOR	1	2SB0709A

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q2406	2SD601A	TRANSISTOR	1	2SD0601A
Q2408	2SD601A	TRANSISTOR	1	2SD0601A
Q2410	2SD601A	TRANSISTOR	1	2SD0601A
Q3001	2SB709A	TRANSISTOR	1	2SB0709A
Q3002-05	2SD601A	TRANSISTOR	4	2SD0601A
Q3007	2SB709A	TRANSISTOR	1	2SB0709A
Q3023	2SD601A	TRANSISTOR	1	2SD0601A
Q3051,52	2SD601A	TRANSISTOR	2	2SD0601A
Q3101	2SB709A	TRANSISTOR	1	2SB0709A (HY)
Q3101	2SD601A	TRANSISTOR	1	2SD0601A (J)
Q3102	2SD1030	TRANSISTOR	1	(HY)
Q3102	2SD601A	TRANSISTOR	1	2SD0601A (J)
Q3103	2SD1030	TRANSISTOR	1	(HY)
Q3103	2SD601A	TRANSISTOR	1	2SD0601A (J)
Q3104	2SD1030	TRANSISTOR	1	(HY)
Q3104-06	2SD601A	TRANSISTOR	3	2SD0601A (J)
Q3401	2SD601A	TRANSISTOR	1	2SD0601A
Q3403	2SD601A	TRANSISTOR	1	2SD0601A
Q3501	2SD601A	TRANSISTOR	1	2SD0601A
Q3502	2SB709A	TRANSISTOR	1	2SB0709A
Q3503-05	2SD601A	TRANSISTOR	3	2SD0601A
Q3506	2SB709A	TRANSISTOR	1	2SB0709A
Q3531,32	2SD601A	TRANSISTOR	2	2SD0601A
Q6431	B1(HY)CJ000003	TRANSISTOR	1	
Q6432	2SB709A	TRANSISTOR	1	2SB0709A
Q6435	2SD601A	TRANSISTOR	1	2SD0601A
Q6451	B1(HY)CJ000003	TRANSISTOR	1	
Q6452	2SB709A	TRANSISTOR	1	2SB0709A
Q6454	2SD814A	TRANSISTOR	1	
Q6455	2SD601A	TRANSISTOR	1	2SD0601A
Q6471	B1(HY)CJ000003	TRANSISTOR	1	
Q6472	2SB709A	TRANSISTOR	1	2SB0709A
Q6474	2SD814A	TRANSISTOR	1	
Q6475-77	2SD601A	TRANSISTOR	3	2SD0601A
Q6491,92	2SC1473A	TRANSISTOR	2	2SC1473AE
Q6501-04	2SK620	FET	4	2SK0620
Q6511,12	B1DFGL000005	TRANSISTOR	2	
Q6520	2SD601A	TRANSISTOR	1	2SD0601A
Q6521	B1DFES000001	TRANSISTOR	1	
Q6523	2SB1073001TV	TRANSISTOR	1	
Q6524,25	2SD2185	TRANSISTOR	2	
Q6526	2SB1073001TV	TRANSISTOR	1	
Q6530-39	2SK349400L	FET	10	
Q6540-49	2SK373100L	TRANSISTOR	10	
Q6550	2SC1473A	TRANSISTOR	1	2SC1473AE
Q6551	2SD601A	TRANSISTOR	1	2SD0601A
Q6552	B1DADU000001	TRANSISTOR	1	
Q6554,55	2SK349400L	FET	2	
Q6556,57	2SK373100L	TRANSISTOR	2	
Q6561	2SB1073001TV	TRANSISTOR	1	
Q6562-64	B1DFES000001	TRANSISTOR	3	
Q6581	2SD601A	TRANSISTOR	1	2SD0601A
Q6601-08	2SK3559000SQ	TRANSISTOR	8	
Q6611	2SD2185	TRANSISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q6612	2SB1073001TV	TRANSISTOR	1	
Q6613	2SD2185	TRANSISTOR	1	
Q6614	2SB1073001TV	TRANSISTOR	1	
Q6616,17	2SK620	FET	2	2SK0620
Q6621,22	2SK3637000VE	TRANSISTOR	2	
Q6624,25	2SK3637000VE	TRANSISTOR	2	
Q6627	2SD2185	TRANSISTOR	1	
Q6628	2SB1073001TV	TRANSISTOR	1	
Q6629	2SD2185	TRANSISTOR	1	
Q6630	2SB1073001TV	TRANSISTOR	1	
Q6701	2SD2185	TRANSISTOR	1	
Q6702	2SB1073001TV	TRANSISTOR	1	
Q6711-18	2SK3559000SQ	TRANSISTOR	8	
Q6721-24	2SK3637000VE	TRANSISTOR	4	
Q6725	2SK620	FET	1	2SK0620
Q6727,28	2SK3192000LB	FET	2	
Q6729,30	2SK326800L	FET	2	
Q6731	2SD1263A	TRANSISTOR	1	
Q6732	2SD2185	TRANSISTOR	1	
Q6733	2SB1073001TV	TRANSISTOR	1	
Q6734	2SD2185	TRANSISTOR	1	
Q6735	2SB1073001TV	TRANSISTOR	1	
Q6738,39	2SC1473A	TRANSISTOR	2	2SC1473AE
Q6741	2SD601A	TRANSISTOR	1	2SD0601A
Q6744	2SD2185	TRANSISTOR	1	
Q6745	2SB1073001TV	TRANSISTOR	1	
Q7561,62	2SB709A	TRANSISTOR	2	2SB0709A
Q8001,02	2SD601A	TRANSISTOR	2	2SD0601A
Q8010	2SD601A	TRANSISTOR	1	2SD0601A
Q8011	2SB709A	TRANSISTOR	1	2SB0709A
Q8012	2SD601A	TRANSISTOR	1	2SD0601A
Q8013	2SB709A	TRANSISTOR	1	2SB0709A
Q9001,02	2SD601A	TRANSISTOR	2	2SD0601A
Q9301	2SD601A	TRANSISTOR	1	2SD0601A
Q9400	2SD601A	TRANSISTOR	1	2SD0601A
Q9591-94	2SD601A	TRANSISTOR	4	2SD0601A
Q9596-99	2SD601A	TRANSISTOR	4	2SD0601A
Q9601,02	2SD601A	TRANSISTOR	2	2SD0601A
Q9701	2SD601A	TRANSISTOR	1	2SD0601A
Q9702	2SB1440	TRANSISTOR	1	2SB14400H
Q9703,04	2SK620	FET	2	2SK0620
Q9706	2SK620	FET	1	2SK0620
Q9707	2SB709A	TRANSISTOR	1	2SB0709A
Q9708,09	2SD601A	TRANSISTOR	2	2SD0601A
Q9710	2SB709A	TRANSISTOR	1	2SB0709A
Q9714-16	2SD601A	TRANSISTOR	3	2SD0601A
Q9719	2SK620	FET	1	2SK0620
R803	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R805	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R806,07	ERJ6ENF15R0	M 15 OHM, 1/10W	2	
R808	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R809	ERJ6ENF1201	M 1.2KOHM, 1/10W	1	
R810	ERJ6ENF5100	M 510 OHM, 1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R901,02	ERC12ZGK105	S 1MOHM, K,1/2W	2	⚠
R903	ERF7TK3R3	W 3.3 OHM, K, 7W	1	
R904	ERG2FJS683D	M 68KOHM, J, 2W	1	
R905	ERJ6GEYJ330	M 33 OHM,J,1/10W	1	
R906	ERDS1FJ3R3	C 3.3 OHM, J,1/2W	1	
R907	ERJ6GEYJ120	M 12 OHM,J,1/10W	1	
R920	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R921	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R922	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R923	ERJ6ENF2202	M 2.2KOHM, 1/10W	1	
R924	ERJ6ENF2402	M 24KOHM, 1/10W	1	
R925	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R926	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R927	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R928	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R951,52	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R1001,02	ERJ6GEYJ560	M 56 OHM,J,1/10W	2	
R1003	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1500	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R1510	ERJ3GEYF222	M 2.2KOHM, 1/16W	1	
R1511	ERJ3GEYF332	M 3.3KOHM, 1/16W	1	
R1512,13	ERJ3GEYF472	M 4.7KOHM, 1/16W	2	
R1550	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R1551	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R1552	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R1553	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R1554	ERJ6GEYJ271	M 270 OHM,J,1/10W	1	
R1555,56	ERJ3GEYJ470	M 47 OHM,J,1/16W	2	
R2301	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2304	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R2305,06	ERJ6GEYJ223	M 22KOHM,J,1/10W	2	
R2309	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2310	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R2319,20	ERJ6GEYJ561	M 560 OHM,J,1/10W	2	
R2321	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R2324,25	ERJ6GEYJ561	M 560 OHM,J,1/10W	2	
R2331	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R2332	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	1	
R2333	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R2341	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2343	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2346	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R2347	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R2348	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2350	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2351-54	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R2355-60	ERDS1FJ2R2	C 2.2 OHM, J,1/2W	6	
R2365,66	ERX1FJSR56D	M0.56 OHM, J, 1W	2	
R2367	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R2368,69	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R2370	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R2371,72	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R2373	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2408	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	

[illegible]	[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R2410	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2431	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R2434	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2438	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R2439	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	
R2440	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R2441	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R2445	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R2448	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2450	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	
R2452	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R2453	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2456	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2457	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R2460	ERJ6ENF1802	M 18KOHM, 1/10W	1	
R2461,62	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R2463	ERJ6ENF1502	M 15KOHM, 1/10W	1	
R2464	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R2466	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R2467	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R2468	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2469	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R2470	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2471	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	1	
R2472	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2473	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	1	
R2476,77	ERJ6GEYJ220	M 22 OHM,J,1/10W	2	
R2480	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2481,82	ERJ6GEYJ153	M 15KOHM,J,1/10W	2	
R2483	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2484	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R2485	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R3001	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(J)
R3001	ERJ6ENF75R0	M 75 OHM, 1/10W	1	(HY)
R3002	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	(J)
R3002	ERJ6ENF75R0	M 75 OHM, 1/10W	1	(HY)
R3003	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(HY)
R3003	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	(J)
R3004	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R3005	ERJ6ENF75R0	M 75 OHM, 1/10W	1	(HY)
R3005	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	(J)
R3006	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(HY)
R3006	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	(J)
R3007	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	(HY)
R3007	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3008	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(HY)
R3008	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3009	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R3010	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002 (J)
R3010	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	(HY)
R3011	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(HY)
R3011	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	(J)
R3012	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	ss
R3012	ERJ3GEYJ752	M 7.5KOHM,J,1/16W	1	(HY)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3013	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	(J)
R3013	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	(HY)
R3014	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	(J)
R3014	ERJ3GEYJ752	M 7.5KOHM,J,1/16W	1	(HY)
R3015	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	(HY)
R3015-22	J0JCC0000100	CHIP INDUCTOR	8	(J)
R3025	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R3026	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(J)
R3026	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	(HY)
R3027	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(J)
R3027	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	(HY)
R3028,29	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R3030	J0JCC0000100	CHIP INDUCTOR	1	
R3031	ERJ3EKF1800	M 180 OHM, 1/16W	1	(HY)
R3031	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3032	ERJ3EKF6200	M 620 OHM, 1/16W	1	(HY)
R3032	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3033	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002 (HY)
R3033	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3034	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R3035	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	(HY)
R3035,36	ERJ3GEYJ331	M 330 OHM,J,1/16W	2	(J)
R3036	ERJ6ENF1800	M 180 OHM, 1/10W	1	(HY)
R3037	J0JCC0000100	CHIP INDUCTOR	1	
R3038	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	(HY)
R3038	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3039	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R3040	ERJ3EKF3300	M 330 OHM, 1/16W	1	(HY)
R3040,41	ERJ3GEYJ331	M 330 OHM,J,1/16W	2	(J)
R3042	ERJ3EKF6801	M 6.8KOHM, 1/16W	1	(HY)
R3042,43	J0JCC0000100	CHIP INDUCTOR	2	(J)
R3044	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R3045	ERJ3EKF2200	M 220 OHM, 1/16W	1	(HY)
R3045	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(J)
R3046	ERJ3EKF1000	M 100 OHM, 1/16W	1	(HY)
R3046	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(J)
R3047	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	(HY)
R3047	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(J)
R3048	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002 (HY)
R3048	ERJ3GEYJ334	M 330KOHM,J,1/16W	1	D0GB334JA002 (J)
R3049	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	(HY)
R3049	ERJ3GEYJ334	M 330KOHM,J,1/16W	1	D0GB334JA002 (J)
R3050	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	(J)
R3050	ERJ6ENF75R0	M 75 OHM, 1/10W	1	(HY)
R3051	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	(HY)
R3051	ERJ3GEYJ334	M 330KOHM,J,1/16W	1	D0GB334JA002 (J)
R3052	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	(HY)
R3052	ERJ3GEYJ334	M 330KOHM,J,1/16W	1	D0GB334JA002 (J)
R3053	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	(HY)
R3053	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	(J)
R3054	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	(HY)
R3054	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	(J)
R3055	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	(HY)
R3055	ERJ3GEYJ334	M 330KOHM,J,1/16W	1	D0GB334JA002 (J)

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3056	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	(HY)
R3056	ERJ3GEYJ334	M 330KOHM,J,1/16W	1	D0GB334JA002 (J)
R3057	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002 (HY)
R3057	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	(J)
R3058	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002 (HY)
R3058	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	(J)
R3059	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R3060	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	(HY)
R3060	ERJ6GEY0R00	M 0 OHM, 1/10W	1	(J)
R3061	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	(HY)
R3061	ERJ6GEY0R00	M 0 OHM, 1/10W	1	(J)
R3062	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	
R3063	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R3064	ERJ6GEYJ560	M 56 OHM,J,1/10W	1	
R3065	ERJ6GEY0R00	M 0 OHM, 1/10W	1	(HY)
R3065-69	ERJ6GEYJ560	M 56 OHM,J,1/10W	5	(J)
R3070-75	ERJ6ENF75R0	M 75 OHM, 1/10W	6	
R3076-81	ERJ6GEYJ560	M 56 OHM,J,1/10W	6	
R3082,83	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R3084,85	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R3086,87	J0JCC0000100	CHIP INDUCTOR	2	
R3088-93	ERJ6ENF75R0	M 75 OHM, 1/10W	6	
R3094-96	ERJ3GEYJ331	M 330 OHM,J,1/16W	3	
R3097,98	J0JCC0000100	CHIP INDUCTOR	2	
R3099,00	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R3101	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	(HY)
R3101	ERJ6ENF1800	M 180 OHM, 1/10W	1	(J)
R3102	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HY)
R3102	ERJ6ENF1800	M 180 OHM, 1/10W	1	(J)
R3103	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	(HY)
R3103	ERJ6ENF1800	M 180 OHM, 1/10W	1	(J)
R3104	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	(HY)
R3104	ERJ6ENF1800	M 180 OHM, 1/10W	1	(J)
R3105	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HY)
R3105	ERJ6ENF1800	M 180 OHM, 1/10W	1	(J)
R3106	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(HY)
R3106	ERJ6ENF1800	M 180 OHM, 1/10W	1	(J)
R3107	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	(HY)
R3107	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3108	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HY)
R3108	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3112	ERJ3EKF1501	M 1.5KOHM, 1/16W	1	(HY)
R3112	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3113	ERJ3EKF1501	M 1.5KOHM, 1/16W	1	(HY)
R3113	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3114	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HY)
R3114	ERJ6ENF8200	M 820 OHM, 1/10W	1	(J)
R3115,02	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R3116	J0JCC0000100	CHIP INDUCTOR	1	
R3117	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	(HY)
R3117	ERJ6ENF4701	M 4.7KOHM, 1/10W	1	(J)
R3118	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HY)
R3118	ERJ6ENF1501	M 1.5KOHM, 1/10W	1	(J)
R3119,02	ERJ3GEYJ121	M 120 OHM,J,1/16W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3120	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R3121	ERJ3GEYJ121	M 120 OHM,J,1/16W	1	(HY)
R3121	ERJ6GEY0R00	M 0 OHM, 1/10W	1	(J)
R3122	ERJ3EKF8201	M 8.2KOHM, 1/16W	1	(HY)
R3122	ERJ6GEY0R00	M 0 OHM, 1/10W	1	(J)
R3123	ERJ3EKF1502	M 15KOHM, 1/16W	1	(HY)
R3123	ERJ6GEY0R00	M 0 OHM, 1/10W	1	(J)
R3124	ERJ3EKF10R0	M 10 OHM, 1/16W	1	(HY)
R3124	ERJ6GEY0R00	M 0 OHM, 1/10W	1	(J)
R3125	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HY)
R3125,26	ERJ6GEY0R00	M 0 OHM, 1/10W	2	(J)
R3127	ERJ6ENF12R0	M 12 OHM, 1/10W	1	(HY)
R3127	ERJ6GEY0R00	M 0 OHM, 1/10W	1	(J)
R3128,29	ERJ3GEYJ181	M 180 OHM,J,1/16W	2	(J)
R3129	ERJ6ENF12R0	M 12 OHM, 1/10W	1	(HY)
R3130,31	ERJ3GEYJ181	M 180 OHM,J,1/16W	2	(HY)
R3131	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	(J)
R3132,33	ERJ3GEYJ181	M 180 OHM,J,1/16W	2	
R3135	ERJ6ENF10R0	M 10 OHM, 1/10W	1	
R3136-39	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R3140	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	(HY)
R3140	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	(J)
R3141	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HY)
R3141	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	(J)
R3142,43	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R3144,45	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R3148,49	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R3151	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R3152	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	
R3153	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R3154,55	ERJ3GEYJ331	M 330 OHM,J,1/16W	2	
R3156	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	
R3157	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R3158	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	1	
R3159	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R3160	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	(HY)
R3160	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	(J)
R3161	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	(HY)
R3161	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	(J)
R3162,63	ERJ3EKF2701	M 2.7KOHM, 1/16W	2	
R3164-67	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R3168	ERJ3EKF2000	M 200 OHM, 1/16W	1	
R3169-72	ERJ6ENF75R0	M 75 OHM, 1/10W	4	
R3173	ERJ3EKF2200	M 220 OHM, 1/16W	1	
R3174	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R3177	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R3178	ERJ3EKF1101	M 1.1KOHM, 1/16W	1	
R3179	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R3180	ERJ3EKF1101	M 1.1KOHM, 1/16W	1	
R3181	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R3182	ERJ3EKF1101	M 1.1KOHM, 1/16W	1	
R3183	ERJ3EKF1401	M 1.4KOHM, 1/16W	1	
R3184	ERJ3EKF1101	M 1.1KOHM, 1/16W	1	
R3185	ERJ6GEY0R00	M 0 OHM, 1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3188	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R3189	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HY)
R3189	ERJ6ENF75R0	M 75 OHM, 1/10W	1	(J)
R3190	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(HY)
R3190	ERJ6ENF75R0	M 75 OHM, 1/10W	1	(J)
R3191	ERJ14YJ330	M 33 OHM, J,1/4W	1	(J)
R3191	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	(HY)
R3192-94	ERJ14YJ330	M 33 OHM, J,1/4W	3	
R3195,96	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R3197,98	ERJ3GEYJ123	M 12KOHM,J,1/16W	2	
R3199-01	ERJ6ENF1800	M 180 OHM, 1/10W	3	
R3202	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HY)
R3202	ERJ6ENF1800	M 180 OHM, 1/10W	1	(J)
R3203	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HY)
R3203	ERJ6ENF1800	M 180 OHM, 1/10W	1	(J)
R3204	ERJ3GEY0R00	M 0 OHM, 1/16W	1	(HY)
R3204	ERJ6ENF1800	M 180 OHM, 1/10W	1	(J)
R3205-07	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R3210,11	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R3212-15	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	4	
R3216-19	ERJ6GEYJ3R3	M 3.3KOHM,J,1/10W	4	
R3230,31	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R3251	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R3252	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R3253	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	(HY)
R3253	J0JCC0000100	CHIP INDUCTOR	1	(J)
R3254	ERJ6ENF4701	M 4.7KOHM, 1/10W	1	
R3255	ERJ6ENF8200	M 820 OHM, 1/10W	1	
R3256	J0JCC0000100	CHIP INDUCTOR	1	
R3257	ERJ6ENF1501	M 1.5KOHM, 1/10W	1	
R3259	J0JCC0000100	CHIP INDUCTOR	1	
R3260-62	ERJ6ENF75R0	M 75 OHM, 1/10W	3	
R3297,98	J0JCC0000100	CHIP INDUCTOR	2	
R3300,01	ERJ3EKF1501	M 1.5KOHM, 1/16W	2	
R3302	ERJ3GEYJ203	M 20KOHM,J,1/16W	1	
R3303,04	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R3305-09	ERJ3GEYJ103	M 10KOHM,J,1/16W	5	
R3313,14	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R3317,18	ERJ3GEYJ333	M 33KOHM,J,1/16W	2	
R3334	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R3337,38	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R3400	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R3401	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R3402	ERJ3EKF1801	M 1.8KOHM, 1/16W	1	
R3403	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R3404	ERJ3EKF1801	M 1.8KOHM, 1/16W	1	
R3405	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R3406	ERJ3EKF1801	M 1.8KOHM, 1/16W	1	
R3407	ERJ6ENF2201	M 2.2KOHM, 1/10W	1	
R3408	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R3409	ERJ6ENF6800	M 680 OHM, 1/10W	1	
R3410	ERJ6ENF2201	M 2.2KOHM, 1/10W	1	
R3411	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R3412	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3413	ERJ3EKF1800	M 180 OHM, 1/16W	1	
R3418	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3501,02	ERJ6GEYJ184	M 180KOHM,J,1/10W	2	
R3506-09	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	4	
R3510,11	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R3514-17	ERJ3GEYJ101	M 100 OHM,J,1/16W	4	D0GB101JA002
R3521,22	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R3525-28	ERJ3GEYJ103	M 10KOHM,J,1/16W	4	
R3529	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002 (HY)
R3529	ERJ6GEYJ184	M 180KOHM,J,1/10W	1	(HX)
R3530	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002 (HY)
R3530	ERJ6GEYJ184	M 180KOHM,J,1/10W	1	(HX)
R3531,32	ERJ3GEYJ3R3	M 3.3 OHM,J,1/16W	2	
R3535,36	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R3538,39	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R3544,45	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R3546,02	ERJ3GEYJ3R3	M 3.3 OHM,J,1/16W	2	
R3547,48	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R3585,86	ERJ6GEYJ560	M 56 OHM,J,1/10W	2	
R3589	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R3590	ERJ6GEYJ560	M 56 OHM,J,1/10W	1	
R3591-93	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
R3653	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R3654	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R3655	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R3656	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R3663,64	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R3668	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R3672	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R3776,77	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R3778	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R3790,91	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6401-06	ERJ6GEYJ221	M 220 OHM,J,1/10W	6	
R6411-14	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R6415,16	ERJ6GEYJ224	M 220KOHM,J,1/10W	2	
R6421-26	ERJ6GEYJ221	M 220 OHM,J,1/10W	6	
R6431	ERJ12YJ1R0	M 1 OHM, J,1/2W	1	(SC)
R6431	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	(SD)
R6432	ERJ12YJ1R0	M 1 OHM, J,1/2W	1	(SC)
R6432,33	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	(SD)
R6433	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	(SC)
R6434	ERDS1FJ221	C 220 OHM, J,1/2W	1	(SC)
R6434	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6435	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	(SD)
R6435	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	(SC)
R6436	ERJ6ENF1543	M 154KOHM, 1/10W	1	(SC)
R6436	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	(SD)
R6437	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6438	ERJ6ENF2202	M 2.2KOHM, 1/10W	1	
R6439-41	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	3	
R6442	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6443	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6449,50	ERJ12YJ1R0	M 1 OHM, J,1/2W	2	
R6453	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6454	ERDS1FJ221	C 220 OHM, J,1/2W	1	
R6455	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R6456	ERJ6ENF4533	M 453KOHM, 1/10W	1	
R6457,58	ERJ6ENF1002	M 10KOHM, 1/10W	2	
R6459	ERJ14YJ104	M 100KOHM, J,1/4W	1	
R6460	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6462	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6464	ERG2FJS273D	M 27KOHM, J, 2W	1	
R6465	ERX2FJS8R2D	M 8.2 OHM, J, 2W	1	
R6467	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	1	
R6468	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6470,71	ERJ6GEYJ333	M 33KOHM,J,1/10W	2	
R6472	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6473	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R6474	ERDS1FJ221	C 220 OHM, J,1/2W	1	
R6475	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R6476	ERJ6ENF3243	M 324KOHM, 1/10W	1	
R6477	EVMEASA00B53	CONTROL 5KOHMB 0.3W	1	
R6478	ERJ6ENF6981	M6.98KOHM, 1/10W	1	
R6479	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6480	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6481	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	1	
R6482	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6483	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	1	
R6484	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6485,86	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6487	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6488	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6489	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6490	ERJ12YJ1R0	M 1 OHM, J,1/2W	1	
R6491	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6492,93	ERJ6ENF2203	M 220KOHM, 1/10W	2	
R6494,95	ERJ6ENF5231	M5.23KOHM, 1/10W	2	
R6496	ERJ12YJ1R0	M 1 OHM, J,1/2W	1	
R6497	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6498,99	ERX1FJS8R2D	M 8.2 OHM, J, 1W	2	
R6500	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	1	
R6501-09	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	9	
R6510	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6511,12	ERX3FJS2R2D	M 2.2 OHM, J, 3W	2	
R6513	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6514	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R6515	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6516	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6517	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R6518	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6519	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6520	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6521	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6522	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R6524	ERJ6ENF1801	M 1.8KOHM, 1/10W	1	
R6525	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6526	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R6527	ERJ14YJ102	M 1KOHM, J,1/4W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6528	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6529	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6530-39	ERJ6GEYJ470	M 47 OHM,J,1/10W	10	
R6540-49	ERJ6GEYJ100	M 10 OHM,J,1/10W	10	
R6550	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R6551	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6552	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6553	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	
R6554,55	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R6556	ERJ6GEYJ392	M 3.9KOHM,J,1/10W	1	
R6557	EVMEASA00B14	CONTROL 10KOHMB 0.3W	1	
R6558	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6559	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6560,61	ERJ6GEYJ470	M 47 OHM,J,1/10W	2	
R6562-64	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	3	
R6565	ERG1FJS332D	M 3.3KOHM, J, 1W	1	
R6566-68	ERJ6ENF1003	M 100KOHM, 1/10W	3	
R6569	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R6570	ERJ6ENF1003	M 100KOHM, 1/10W	1	
R6571-78	ERJ6GEYJ471	M 470 OHM,J,1/10W	8	
R6579	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	
R6580	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6581	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6582,83	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R6584	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R6585,86	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	2	
R6587	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6588	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6589	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6590,91	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6592,93	ERJ6GEYJ224	M 220KOHM,J,1/10W	2	
R6594	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6595,96	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	2	
R6599	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6600	ERD25V0T	M OHM, 1/10W	1	
R6601	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	
R6603	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6604	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6605-07	ERJ6GEYJ224	M 220KOHM,J,1/10W	3	
R6608	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6609,10	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6611-18	ERJ6GEYJ100	M 10 OHM,J,1/10W	8	
R6619-22	ERJ6GEYJ470	M 47 OHM,J,1/10W	4	
R6625	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6626	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6627	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6628	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6629,30	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6631-38	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	8	
R6641,42	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6643	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6644,45	ERJ6GEYJ470	M 47 OHM,J,1/10W	2	
R6646,47	ERJ6GEYJ100	M 10 OHM,J,1/10W	2	
R6648-50	ERJ6GEYJ102	M 1KOHM,J,1/10W	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6657-59	ERJ6GEYJ102	M 1KOHM,J,1/10W	3	
R6687,88	ERX2FJSR22D	M0.22 OHM, J, 2W	2	
R6689,90	ERJ12YJ220	M 22 OHM,J, 1/2W	2	
R6691	EXB38V471J	RESISTOR ARRAY	1	
R6692	EXB38V473J	RESISTOR ARRAY	1	
R6693	EXB38V471J	RESISTOR ARRAY	1	
R6694	EXB38V473J	RESISTOR ARRAY	1	
R6695	EXB38V471J	RESISTOR ARRAY	1	
R6696	EXB38V473J	RESISTOR ARRAY	1	
R6697	EXB38V471J	RESISTOR ARRAY	1	
R6698	EXB38V473J	RESISTOR ARRAY	1	
R6700	ERD25V0T	M OHM, 1/10W	1	
R6701-03	ERX3FJSR22D	M 2.2 OHM, J, 3W	3	
R6704	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6705,06	ERJ6GEYJ100	M 10 OHM,J,1/10W	2	
R6707	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6710	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6711-18	ERJ6GEYJ100	M 10 OHM,J,1/10W	8	
R6719-22	ERJ6GEYJ470	M 47 OHM,J,1/10W	4	
R6725	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6726	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6727	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6728	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6729,30	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6731-38	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	8	
R6741,42	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6744	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6747	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6750	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6751,52	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6753	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6754	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6755,56	ERJ6GEYJ470	M 47 OHM,J,1/10W	2	
R6757	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6758	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6759	ERJ12YJ470	M 47 OHM, J,1/2W	1	
R6760	ERG1FJS472D	M 4.7KOHM, J, 1W	1	
R6761	ERG2FJS123D	M 12KOHM, J, 2W	1	
R6762	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R6763	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6764	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R6765,66	ERJ6GEYJ333	M 33KOHM,J,1/10W	2	
R6767	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6769	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6770	EVMEASA00B14	CONTROL 10KOHMB 0.3W	1	
R6772	ERJ6ENF1201	M 1.2KOHM, 1/10W	1	
R6775	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R6776	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6777,78	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R6779	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R6780,81	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	2	
R6782	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6783	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6784	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6785	EXB38V471J	RESISTOR ARRAY	1	
R6786	EXB38V473J	RESISTOR ARRAY	1	
R6787	EXB38V471J	RESISTOR ARRAY	1	
R6788	EXB38V473J	RESISTOR ARRAY	1	
R6789,90	ERJ6GEYJ224	M 220KOHM,J,1/10W	2	
R6801-08	ERJ6GEYJ680	M 68 OHM,J,1/10W	8	
R6815	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R6817,18	ERX2FJSR22D	M0.22 OHM, J, 2W	2	
R6823,24	ERJ12YJ220	M 22 OHM,J, 1/2W	2	
R6830	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6850	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7105	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7106	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R7107	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7108	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7109	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7111-22	ERJ14YJ220	M 22 OHM, J,1/4W	12	
R7141-44	ERJ6GEY0R00	M 0 OHM, 1/10W	4	
R7147	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7148	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7158-65	ERJ3GEYJ470	M 47 OHM,J,1/16W	8	
R7174-81	ERJ3GEYJ470	M 47 OHM,J,1/16W	8	
R7190-97	ERJ3GEYJ470	M 47 OHM,J,1/16W	8	
R7199-02	ERJ14YJ220	M 22 OHM, J,1/4W	4	
R7208-11	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R7212-15	ERJ3GEYJ220	M 22 OHM,J,1/16W	4	
R7216-19	ERJ3GEYJ121	M 120 OHM,J,1/16W	4	
R7220-23	ERJ3GEYJ181	M 180 OHM,J,1/16W	4	
R7224-27	ERJ3GEYJ470	M 47 OHM,J,1/16W	4	
R7229,30	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R7236	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7305	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7306	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R7307	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7308	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7309	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7311-18	ERJ14YJ220	M 22 OHM, J,1/4W	8	
R7333-37	ERJ14YJ220	M 22 OHM, J,1/4W	5	
R7347	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7348	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7358-65	ERJ3GEYJ470	M 47 OHM,J,1/16W	8	
R7368,69	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R7374-81	ERJ3GEYJ470	M 47 OHM,J,1/16W	8	
R7386,87	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R7389	ERJ3GEYJ181	M 180 OHM,J,1/16W	1	
R7390-97	ERJ3GEYJ470	M 47 OHM,J,1/16W	8	
R7398-00	ERJ3GEYJ220	M 22 OHM,J,1/16W	3	
R7401-04	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R7406,07	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R7410-13	ERJ3GEYJ470	M 47 OHM,J,1/16W	4	
R7417	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7418-20	ERJ14YJ220	M 22 OHM, J,1/4W	3	
R7421-23	ERJ3GEYJ181	M 180 OHM,J,1/16W	3	
R7424-27	ERJ3GEYJ121	M 120 OHM,J,1/16W	4	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7428	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R7505	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7506	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R7507	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7508	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7510	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7511-18	ERJ14YJ220	M 22 OHM, J,1/4W	8	
R7533-37	ERJ14YJ220	M 22 OHM, J,1/4W	5	
R7541-44	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R7547	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7548	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7558-65	ERJ3GEYJ470	M 47 OHM,J,1/16W	8	
R7568,69	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R7574-81	ERJ3GEYJ470	M 47 OHM,J,1/16W	8	
R7586,87	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R7589	ERJ3GEYJ181	M 180 OHM,J,1/16W	1	
R7590-97	ERJ3GEYJ470	M 47 OHM,J,1/16W	8	
R7598-00	ERJ3GEYJ220	M 22 OHM,J,1/16W	3	
R7601-04	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R7606-09	ERJ3GEYJ470	M 47 OHM,J,1/16W	4	
R7612	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7614,15	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R7618-20	ERJ14YJ220	M 22 OHM, J,1/4W	3	
R7621-23	ERJ3GEYJ181	M 180 OHM,J,1/16W	3	
R7624-27	ERJ3GEYJ121	M 120 OHM,J,1/16W	4	
R7628	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R7705	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7706	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R7707	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7708	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7710	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7711-22	ERJ14YJ220	M 22 OHM, J,1/4W	12	
R7747	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7748	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7758-65	ERJ3GEYJ470	M 47 OHM,J,1/16W	8	
R7766-69	ERJ3GEYJ220	M 22 OHM,J,1/16W	4	
R7770-73	ERJ3GEYJ121	M 120 OHM,J,1/16W	4	
R7774-81	ERJ3GEYJ470	M 47 OHM,J,1/16W	8	
R7790-97	ERJ3GEYJ470	M 47 OHM,J,1/16W	8	
R7799	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7801	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R7803	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7806-09	ERJ14YJ220	M 22 OHM, J,1/4W	4	
R7810-13	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R7814-17	ERJ6GEY0R00	M 0 OHM, 1/10W	4	
R7818-21	ERJ3GEYJ181	M 180 OHM,J,1/16W	4	
R7823-26	ERJ3GEYJ470	M 47 OHM,J,1/16W	4	
R8001-16	J0JCC0000100	CHIP INDUCTOR	16	
R8017-20	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	4	
R8021-24	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	4	
R8025-28	ERJ3GEYJ331	M 330 OHM,J,1/16W	4	
R8029,30	ERJ6ENF3301	M 3.3KOHM, 1/10W	2	
R8031,32	ERJ6ENF2201	M 2.2KOHM, 1/10W	2	
R8033,34	ERJ3GEYJ104	M 100KOHM,J,1/16W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R8035,36	ERJ6ENF3301	M 3.3KOHM, 1/10W	2	
R8037-40	ERJ6ENF4701	M 4.7KOHM, 1/10W	4	
R8041,42	ERJ3GEYJ183	M 18KOHM,J,1/16W	2	
R8043,44	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R8045,46	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	2	
R8047	ERJ3GEYJ271	M 270 OHM,J,1/16W	1	
R8048-51	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	4	
R8054-59	ERJ3GEYJ101	M 100 OHM,J,1/16W	6	D0GB101JA002
R8060,61	ERJ6ENF3301	M 3.3KOHM, 1/10W	2	
R8062	ERJ3GEYJ271	M 270 OHM,J,1/16W	1	
R8065-70	ERJ3GEYJ101	M 100 OHM,J,1/16W	6	D0GB101JA002
R8071,72	J0JCC0000100	CHIP INDUCTOR	2	
R8077-82	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	6	
R8083-85	ERJ3GEYJ102	M 1KOHM,J,1/16W	3	
R8087	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R8089	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R8091	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R8093,94	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R8095,96	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R8097-00	ERJ3GEYJ103	M 10KOHM,J,1/16W	4	
R9001	EXB38V470J	RESISTOR ARRAY	1	
R9002,03	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9004	EXB38V470J	RESISTOR ARRAY	1	
R9005	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9006	EXB38V470J	RESISTOR ARRAY	1	
R9007-09	ERJ3GEYJ101	M 100 OHM,J,1/16W	3	D0GB101JA002
R9010	EXB38V470J	RESISTOR ARRAY	1	
R9011	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9012	EXB38V470J	RESISTOR ARRAY	1	
R9014	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9015	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R9016	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9017	EXB38V470J	RESISTOR ARRAY	1	
R9018-20	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9022-24	ERJ3GEYJ750	M 75 OHM,J,1/16W	3	
R9025	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9026	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R9027	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R9028	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9029	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R9030	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9031	EXB38V470J	RESISTOR ARRAY	1	
R9032,33	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9034	EXB38V470J	RESISTOR ARRAY	1	
R9035	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9036	EXB38V470J	RESISTOR ARRAY	1	
R9037-39	ERJ3GEYJ101	M 100 OHM,J,1/16W	3	D0GB101JA002
R9040	EXB38V470J	RESISTOR ARRAY	1	
R9042	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9043	EXB38V470J	RESISTOR ARRAY	1	
R9044	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R9045	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9046	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9047	EXB38V470J	RESISTOR ARRAY	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9050-53	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R9054-56	ERJ3GEYJ750	M 75 OHM,J,1/16W	3	
R9057	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9058	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R9059	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R9060	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9061	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R9062	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9063	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9104-07	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R9108-10	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
R9111-13	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9114,15	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R9117-20	ERJ6GEY0R00	M 0 OHM, 1/10W	4	
R9122,23	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R9130-35	ERJ3GEYJ101	M 100 OHM,J,1/16W	6	D0GB101JA002
R9151-55	EXB2HVR000	RESISTOR ARRAY	5	
R9157	EXB2HVR000	RESISTOR ARRAY	1	
R9167,68	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9171,72	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9176	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9177	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9178,79	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9180	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9182	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9183	ERJ6ENF3001	M 3KOHM, 1/10W	1	
R9184	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R9187	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9190	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9191	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9199	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9202	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9203	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9204,05	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9211-15	ERJ3GEY0R00	M 0 OHM, 1/16W	5	
R9216	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9218	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9219	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9220,21	ERJ3GEYJ151	M 150 OHM,J,1/16W	2	
R9224	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R9226	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9228	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9229,30	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9231	ERJ3GEYJ122	M 1.2KOHM,J,1/16W	1	
R9232	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R9234	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9236	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9240,41	ERJ3GEYJ330	M 33 OHM,J,1/16W	2	
R9244,45	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9302	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9304	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9309	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9310	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R9311	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9312-14	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
R9315	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9317	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9318-21	EXB38V470J	RESISTOR ARRAY	4	
R9322	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9323,24	EXB38V680J	RESISTOR ARRAY	2	
R9325	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9327	EXB38V680J	RESISTOR ARRAY	1	
R9328	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R9329,30	ERJ3GEYJ100	M 10 OHM,J,1/16W	2	
R9331	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R9332	EXB38V680J	RESISTOR ARRAY	1	
R9335	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9336	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9337	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9338	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R9339	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9341,42	ERJ3GEYJ470	M 47 OHM,J,1/16W	2	
R9346	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9347,48	ERJ3GEYJ100	M 10 OHM,J,1/16W	2	
R9349	EXB38V680J	RESISTOR ARRAY	1	
R9350	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9351	EXB38V680J	RESISTOR ARRAY	1	
R9352	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9354	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R9355	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9357	EXB38V680J	RESISTOR ARRAY	1	
R9359	EXB38V680J	RESISTOR ARRAY	1	
R9362	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9363	EXB38V680J	RESISTOR ARRAY	1	
R9365	EXB38V680J	RESISTOR ARRAY	1	
R9367	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9368,69	EXB38V680J	RESISTOR ARRAY	2	
R9371	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9373-75	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9376	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9377-79	EXB2HVR000	RESISTOR ARRAY	3	
R9380	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9385	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9386	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9388	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9389,90	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9391,92	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R9393-96	ERJ3GEYJ103	M 10KOHM,J,1/16W	4	
R9397,98	ERJ6ENF1001	M 1KOHM, 1/10W	2	
R9399,00	ERJ3GEYJ100	M 10 OHM,J,1/16W	2	
R9401,02	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9403	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9405	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9408	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9411	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9413	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R9414,15	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R9417	ERJ6GEY0R00	M 0 OHM, 1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9420	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R9421	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9425	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9431	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9435	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9437	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9439-41	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9443-45	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9447	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9449	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9455	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9457	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9459	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9460-62	ERJ3GEYJ100	M 10 OHM,J,1/16W	3	
R9463	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R9465,66	EXB2HVR000	RESISTOR ARRAY	2	
R9467	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9468	EXB2HVR000	RESISTOR ARRAY	1	
R9469,70	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9475	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9476	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9477,78	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9479	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9480,81	ERJ6ENF1001	M 1KOHM, 1/10W	2	
R9483	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9484,85	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R9486,87	ERJ6ENF1001	M 1KOHM, 1/10W	2	
R9488,89	ERJ3GEYJ100	M 10 OHM,J,1/16W	2	
R9490,91	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9492-95	EXB38VR000	RESISTOR ARRAY	4	
R9496	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9498	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9501	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9503	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9504	EXB38V103J	RESISTOR ARRAY	1	
R9506	EXB38V103J	RESISTOR ARRAY	1	
R9509-13	ERJ3GEYJ103	M 10KOHM,J,1/16W	5	
R9514	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9515	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9516,17	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9518-27	EXB38V680J	RESISTOR ARRAY	10	
R9528	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9529,30	EXB38V680J	RESISTOR ARRAY	2	
R9532-37	ERJ3GEYJ470	M 47 OHM,J,1/16W	6	
R9538,39	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9540	EXB38V470J	RESISTOR ARRAY	1	
R9541,42	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9543	EXB38V470J	RESISTOR ARRAY	1	
R9544,45	ERJ3GEYJ470	M 47 OHM,J,1/16W	2	
R9547	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R9548	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9550,51	EXB38V470J	RESISTOR ARRAY	2	
R9552	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9553	EXB38V680J	RESISTOR ARRAY	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9554	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9556-58	ERJ3GEYJ151	M 150 OHM,J,1/16W	3	
R9559	EXB38V470J	RESISTOR ARRAY	1	
R9560	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9561	EXB38V470J	RESISTOR ARRAY	1	
R9562	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9563	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9564	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9565	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9567	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9569	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9577	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9585	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9586	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9592	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9593	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9594	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9595	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9596	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9597	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9600-05	ERJ3GEY0R00	M 0 OHM, 1/16W	6	
R9607-17	ERJ3GEY0R00	M 0 OHM, 1/16W	11	
R9618	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R9620,21	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9622,23	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9624	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9625	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	
R9627-29	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9631-35	ERJ3GEY0R00	M 0 OHM, 1/16W	5	
R9637,38	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9640,41	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9642	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9643	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9645	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9646	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9647	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9648	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9650-53	EXB38V103J	RESISTOR ARRAY	4	
R9654-56	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9658	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9659-61	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	3	
R9662	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9663-69	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	7	
R9670-79	ERJ3GEY0R00	M 0 OHM, 1/16W	10	
R9682-90	ERJ3GEY0R00	M 0 OHM, 1/16W	9	
R9692	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9693	EXB38V103J	RESISTOR ARRAY	1	
R9694-00	ERJ3GEY0R00	M 0 OHM, 1/16W	7	
R9701	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9702	ERJ3GEYJ680	M 68 OHM,J,1/16W	1	ERJ3GEYJ680V
R9703-08	ERJ3GEYJ101	M 100 OHM,J,1/16W	6	D0GB101JA002
R9709	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R9710-16	ERJ3GEYJ151	M 150 OHM,J,1/16W	7	
R9717,18	ERJ3GEY0R00	M 0 OHM, 1/16W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9719-24	ERJ3GEYJ151	M 150 OHM,J,1/16W	6	
R9725	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R9727	EXB38VR000	RESISTOR ARRAY	1	
R9728	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9729-32	ERJ3GEYJ101	M 100 OHM,J,1/16W	4	D0GB101JA002
R9733	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R9734	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9735	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9736	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R9737	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9738,39	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	2	
R9741	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9743	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9745	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9747	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9748	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9749	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9750	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9751	EXB38V103J	RESISTOR ARRAY	1	
R9753	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9754	EXB38V272J	RESISTOR ARRAY	1	
R9755,56	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	2	
R9757	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9758	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9759	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9760	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9761	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9762	EXB38V103J	RESISTOR ARRAY	1	
R9763	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9765	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9766	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9767	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9768	EXB38V470J	RESISTOR ARRAY	1	
R9769	EXB38VR000	RESISTOR ARRAY	1	
R9770	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9771	EXB38VR000	RESISTOR ARRAY	1	
R9773	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9774-76	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	
R9777	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R9779	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9781	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9782	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R9783,84	ERJ3GEYJ560	M 56 OHM,J,1/16W	2	
R9785,86	EXB38VR000	RESISTOR ARRAY	2	
R9787	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9788	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9789	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R9790	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	1	
R9791	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9794	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R9795	ERJ3GEYJ105	M 1MOHM,J,1/16W	1	
R9798,99	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R9800	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9803,04	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9805	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9806	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9807,08	EXB38V103J	RESISTOR ARRAY	2	
R9810,11	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9814	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9816	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9817	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9818,19	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R9820	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9823,24	ERJ3GEYJ560	M 56 OHM,J,1/16W	2	
R9825	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9826	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9827	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R9828	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9829	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R9830	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9831,32	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9833	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R9834,35	ERJ3GEYJ560	M 56 OHM,J,1/16W	2	
R9836	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9837	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9838	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9839,40	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R9843,44	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9846,47	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9848	EXB38V103J	RESISTOR ARRAY	1	
R9849,50	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R9851	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R9852,53	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9855	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R9856	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9857	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9858	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9859	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9860	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9861	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9864	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9865	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9868	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9869	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9871	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9872	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9873	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9874,75	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R9876	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9878-80	ERJ3GEYJ101	M 100 OHM,J,1/16W	3	D0GB101JA002
R9882,83	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R9885	EXB38V103J	RESISTOR ARRAY	1	
R9886	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9887,88	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9889	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9890	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9891	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9893-96	ERJ3GEYJ101	M 100 OHM,J,1/16W	4	D0GB101JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9897	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9898	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9900	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9901	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9903	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9905	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9906	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9907	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9908	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9909	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9910	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9913	ERJ6ENF2202	M 2.2KOHM, 1/10W	1	
R9914	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9916	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9917	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9918	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9919	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R9920	ERJ3GEYJ105	M 1MOHM,J,1/16W	1	
R9921-23	ERJ3GEYJ101	M 100 OHM,J,1/16W	3	D0GB101JA002
R9924	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R9925	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9930	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9931	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9932	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9933	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R9934	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9935,36	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R9937	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R9939	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R9940	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9941	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R9942	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9943	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9944	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9945,46	ERJ3GEYJ100	M 10 OHM,J,1/16W	2	
R9947	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9948,49	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9951,52	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9954-57	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R9959,60	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R9961	ERJ6ENF1621	M1.62KOHM, 1/10W	1	
R9962	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R9963	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9964	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9965	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9966	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9969	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9970	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9971	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9972	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9975	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9976	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9979	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9996	ERJ6GEY0R00	M 0 OHM, 1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9998	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
RL901	K6B2ADA00007	REALY	1	⚠
RM001	PNA4601M05TV	REMOCO RECEIVER	1	
RTL	TNPA3003	CIRCUIT BOARD H3	1	⚠
RTL	TNPA2826	CIRCUIT BOARD J	1	⚠
RTL	TZTNP020QJS	CIRCUIT BOARD HX	1	⚠
RTL	TXNHY10QBS	CIRCUIT BOARD HY	1	⚠
RTL	TNPA2815	CIRCUIT BOARD Z	1	⚠
RTL	TXNPF10QBS	CIRCUIT BOARD PF	1	⚠
RTL	TNPA2889	CIRCUIT BOARD P	1	⚠
RTL	TNPA2909	CIRCUIT BOARD SU	1	⚠
RTL	TNPA2910	CIRCUIT BOARD SD	1	⚠
RTL	TNPA2899	CIRCUIT BOARD C1	1	⚠
RTL	TNPA2900	CIRCUIT BOARD C2	1	⚠
RTL	TNPA2901	CIRCUIT BOARD C3	1	⚠
RTL	TNPA2902	CIRCUIT BOARD C4	1	⚠
RTL	TZTNP01QJSU	CIRCUIT BOARD D	1	⚠
RTL	TXNSC10QJS	CIRCUIT BOARD SC	1	⚠
RTL	TXNSS10QJS	CIRCUIT BOARD SS	1	⚠
RTL	TNPA2916	CIRCUIT BOARD SS2	1	⚠
RTL	TNPA2917	CIRCUIT BOARD SS3	1	⚠
RTL	TNPA2868AB	CIRCUIT BOARD S1	1	⚠
RTL	TXNV110QJS	CIRCUIT BOARD V1	1	⚠
S061	K0F162B00002	SWITCH	1	
S1550-54	EVQPBD05R	SWITCH	5	
SC2	K1KA06A00180	6P CONNECTOR	1	
SC20	K1KA20A00180	20P CONNECTOR	1	
SC23	K1KA03A00213	3P CONNECTOR	1	
SC41-44	K1KB40B00015	40P CONNECTOR	4	
SD1-D4	K1MN96B00001	CONNECTOR	4	
SS11-18	K1MN13B00020	13P CONNECTOR	8	
SS19	K1KB07A00037	7P CONNECTOR	1	
SS20,21	K1KA07A00170	7P CONNECTOR	2	
SS22	K1KB07A00037	7P CONNECTOR	1	
SS32	K1KA12A00176	12P CONNECTOR	1	
SS34	K1KA03A00213	3P CONNECTOR	1	
SS42	K1KA04A00242	4P CONNECTOR	1	
SS51	K1KA07A00096	7P CONNECTOR	1	
SS52	K1KA10A00259	10P CONNECTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
SU1-U4	K1MN96B00001	CONNECTOR	4	
T901	ETS28AZ1E6AD	SWITCHING TRANS	1	⚠
T6431	ETS13TB139AP	SWITCHING TRANS	1	
T6451	G4D1A0000072	SWITCHING TRANS	1	
T6471	G4D1A0000072	SWITCHING TRANS	1	
V34	K1KA08B00005	8P CONNECTOR	1	
X3101	H0J202500002	CRYSTAL	1	
X9302	H0J200500016	CRYSTAL	1	
X9350	H0J327200038	CRYSTAL	1	
X9701	H0J245500013	CRYSTAL	1	
X9702	H0J921400003	CRYSTAL	1	
X9703	H0J200500016	CRYSTAL	1	
Z5	K1KA11A00048	11P CONNECTOR	1	
Z6	K1KA04A00195	4P CONNECTOR	1	
Z7	K1KA03A00172	3P CONNECTOR	1	
Z8	K1KA20A00180	20P CONNECTOR	1	
ZA001-03	K4ZZ01000121	EARTH LUG	3	
ZA3001-08	K4ZZ01000121	EARTH LUG	8	
C401	F0CAF105A021	C 1UF, 250V	1	
C402	ECJ2XC1H101J	C 100PF, J, 50V	1	
C403	ECKCNA222MEB	C 2200PF, M	1	
C404	F0CAF105A021	C 1UF, 250V	1	
C407	EEUEB2W220B	E 22UF, 450V	1	
C408	F2A1H470A123	E 47UF, 50V	1	
C409	F0CAF105A021	C 1UF, 250V	1	
C410	F2A1H470A123	E 47UF, 50V	1	
C411	F2A1H100A123	E 10UF, 50V	1	
C412	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C413	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C416	F1J1V474A001	C 0.47UF, 35V	1	
C417	F2A1H100A123	E 10UF, 50V	1	
C419	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C421,22	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C423	ECJ2XB1H472K	C 4700PF, K, 50V	1	
C424,25	ECJ3YB1E105K	C 1UF, K, 25V	2	
C426	ECJ2XC1H471J	C 470PF, J, 50V	1	
C427	F1J1A1050002	C 1UF, Z, 50V	1	
C428	ECJ2XC1H221J	C 220PF, J, 50V	1	
C429,30	F1K2J1530002	C 0.15PF, J,630V	2	
C431	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C432	F1J1C1050011	C 1UF, Z, 50V	1	
C436	F1J1C1050011	C 1UF, Z, 50V	1	
C440	F2A1H100A123	E 10UF, 50V	1	
C443,44	F1A3A102A040	C 1000PF, J, 1KV	2	
C445	F1J1C1050011	C 1UF, Z, 50V	1	
C446	F2B2W3310006	C 330UF, 450V	1	
C448	F2B2W3310006	C 330UF, 450V	1	
C449,50	F1A3A102A040	C 1000PF, J, 1KV	2	

[illegible]	[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C451	F1A3A101A040	C 100PF, J, 1KV	1	
C455	F1A3A221A040	C 220UF, 1KV	1	
C457	ECWH8203RHV	P 0.020PF, J, 8KV	1	
C458	ECWH8683RHV	P 0.068PF, J, 8KV	1	
C459	F1K2J1530002	C 0.15PF, J,630V	1	
C460,61	F1A3A331A039	C 330UF, 1KV	2	
C462	ECJ3YB1E105K	C 1UF, K, 25V	1	
C463	ECJ2XC1H220J	C 22UF, J, 50V	1	
C464	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C465	ECKDNA471KB7	C 470PF, Z,	1	ECKCNA471KB7
C501,02	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C503,04	ECJ2XB1H104K	C 0.1UF, K, 50V	2	
C506-08	ECJ2XB1H103K	C 0.01UF, K, 50V	3	
C509	F2A1E101A097	E 100UF 25V	1	
C511	F1J1C1050011	C 1UF, Z, 50V	1	
C513,14	ECJ2XC1H471J	C 470PF, J, 50V	2	
C515	EEUFC1A102	E 1000UF, 10V	1	
C516	F1J1A1050002	C 1UF, Z, 50V	1	
C517	EEUFC1A221	E 220UF, 10V	1	
C518	F2A1E470A097	E 47UF, 25V	1	
C521	F2A1H100A123	E 10UF, 50V	1	
C522	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C523	F2A1E101A097	E 100UF 25V	1	
C524	EEUEB1H220SB	E 22UF, 50V	1	
C525	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C526	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C527	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C528	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C529	F2A1E101A097	E 100UF 25V	1	
C530	ECJ2VB1H333K	C 0.033UF, K, 50V	1	
C531,32	ECJ2XB1H104K	C 0.1UF, K, 50V	2	
C534	ECJ2XC1H681J	C 680PF, J, 50V	1	
C535	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C536	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C537	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C538	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C539	ECJ2VB1H333K	C 0.033UF, K, 50V	1	
C540	ECJ2XC1H152J	C 1500PF, J, 50V	1	
C541	F1J1C1050011	C 1UF, Z, 50V	1	
C544	F1J1C1050011	C 1UF, Z, 50V	1	
C546	F2A1E101A097	E 100UF 25V	1	
C547	ECJ2VB1H333K	C 0.033UF, K, 50V	1	
C549	F1J2E1030004	C 0.1PF, J,250V	1	
C550	F2A1E681A099	E 680UF, 25V	1	
C552	F1J1C1050011	C 1UF, Z, 50V	1	
C553,54	ECJ2XB1H104K	C 0.1UF, K, 50V	2	
C555	ECA2AHG102	E 1000UF, 100V	1	
C556	F2A1C152A126	E 1500UF, 16V	1	
C557	F2A1E681A099	E 680UF, 25V	1	
C558	F2B2D1720001	E 1700UF,@ 200V	1	
C559	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C560	ECA2AHG102	E 1000UF, 100V	1	
C561	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C562	F2B2D1720001	E 1700UF,@ 200V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C565	F2A1E4710065	E 470UF, 25V	1	
C573	F1J1C1050011	C 1UF, Z, 50V	1	
C574	EEUFC0J122	E 1200UF, 6.3V	1	
C576	F2A1E470A097	E 47UF, 25V	1	
C577	F2A2A101A023	E 100UF, 100V	1	
C578	F2A1E470A097	E 47UF, 25V	1	
C579	ECJ2XB1H223K	C 0.022UF, K, 50V	1	
C580	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C581	ECJ2XB1H223K	C 0.022UF, K, 50V	1	
C583	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C585,86	ECJ2XB1H104K	C 0.1UF, K, 50V	2	
C587	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C598	F2A1E470A097	E 47UF, 25V	1	
C599	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C600,01	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C602	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C603,04	ECJ2XB1H104K	C 0.1UF, K, 50V	2	
C605	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C606	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C607	F1J1C1050011	C 1UF, Z, 50V	1	
C608,09	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
D401	B0F(HY)R000020	DIODE	1	
D402	MA4082M	ZENER DIODE	1	MAZ40820M
D404	S1WBA80Z	DIODE	1	
D408	MA4180M	ZENER DIODE	1	MAZ41800M
D409	B0HAMM000072	DIODE	1	
D410	MA188	DIODE	1	MA2C188
D411	B0(HY)17000006	DIODE	1	
D412	MA165	DIODE	1	MA2C165
D414	MA165	DIODE	1	MA2C165
D415	B0JAME000081	DIODE	1	
D418	MA4082M	ZENER DIODE	1	MAZ40820M
D419,20	B0HBRR000001	DIODE	2	
D421	MA4150M	ZENER DIODE	1	MAZ41500M
D423-26	B0JAME000081	DIODE	4	
D431	B0JCDD000002	DIODE	1	
D433,34	MA4051NM	ZENER DIODE	2	MAZ4051NM
D503,04	MA165	DIODE	2	MA2C165
D505,06	B0JAME000081	DIODE	2	
D507	MA165	DIODE	1	MA2C165
D510	B0HAMM000072	DIODE	1	
D511	B0JAME000078	DIODE	1	
D513	MA4100M	ZENER DIODE	1	MAZ41000M
D515	MA4056M	ZENER DIODE	1	MAZ40560M
D517-20	MA165	DIODE	4	MA2C165
D521	MA188	DIODE	1	MA2C188
D528,29	MA153	DIODE	2	MA3X153
D530	MA4100M	ZENER DIODE	1	MAZ41000M
D531	B0HDRM000001	DIODE	1	
D532	MA3J142D0L	DIODE	1	
D533,34	MA752A	DIODE	2	MA3D752A
D535	MA188	DIODE	1	MA2C188
D536	MA752A	DIODE	1	MA3D752A

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D537	B0HBRP000006	DIODE	1	
D538	MA4051NM	ZENER DIODE	1	MAZ4051NM
D539	B0HBRP000006	DIODE	1	
D540,41	MA188	DIODE	2	MA2C188
D543-45	MA3180H	ZENER DIODE	3	
D546	B0JCND000005	DIODE	1	
D547	MA3150M	ZENER DIODE	1	MAZ31500M
D548	MA4075M	ZENER DIODE	1	MAZ40750M
D549	MA188	DIODE	1	MA2C188
D550	MA4068M	ZENER DIODE	1	MAZ40680M
D551	MA4075M	ZENER DIODE	1	MAZ40750M
D552	MA4051NM	ZENER DIODE	1	MAZ4051NM
D553	MA165	DIODE	1	MA2C165
D554	ERA15-01	DIODE	1	B0EAKL000006
D555	MA4075M	ZENER DIODE	1	MAZ40750M
D557	MA111	DIODE	1	MA2J111
D561	MA3075MTX	ZENER DIODE	1	MAZ30750ML
D563,64	MA111	DIODE	2	MA2J111
D565	B0JAME000081	DIODE	1	
F405	P130A	FUSE	1	
IC401	CNC1S171R	IC	1	
IC402	NJM2903V	IC	1	C0(HY)BA000032
IC403,04	CNC1S171R	IC	2	
IC406	C0DAZZZ00019	TRANSISTOR	1	
IC408	CNC1S171R	IC	1	
IC409	MIP2E2DMPSCF	IC	1	
IC501	C2ABDA000040	TRANSISTOR	1	
IC502	C0EBH0000190	TRANSISTOR	1	
IC503	C0ZBZ0000383	TRANSISTOR	1	
IC504	TA76431ASTP6	IC	1	
IC511	C0D(J)ZG00010	TRANSISTOR	1	
IC512	TA76431ASTP6	IC	1	
IC520	C0JBAZ002056	TRANSISTOR	1	
IC521	C0JBAF000367	TRANSISTOR	1	
IC522	C0JBAZ002056	TRANSISTOR	1	
IC523	C0JBAF000367	TRANSISTOR	1	
L401	EXCELDR25C	BEAD CHOKE	1	
L402	EXCELSA24	BEAD CHOKE	1	
L403	EXCELSA35	BEAD CHOKE	1	
L502	EXCELDR25C	BEAD CHOKE	1	
L503	ELELN100KA	CHIP INDUCTOR	1	
L504	G0A151ZA0038	CHOKE COIL	1	
L505-07	EXCELDR25C	BEAD CHOKE	3	
L510	EXCELDR25C	BEAD CHOKE	1	
P2	K1KA06A00180	6P CONNECTOR	1	
P5	K1KA11A00073	11P CONNECTOR	1	
P7	K1KA04A00242	4P CONNECTOR	1	
P9	K1KA02A00104	2P CONNECTOR	1	
P11	K1KA07A00096	7P CONNECTOR	1	
P12	K1KA10A00259	10P CONNECTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
P23	K1KA03A00213	3P CONNECTOR	1	
P25	TJS1A8840	8P CONNECTOR	1	K1KA08A00221
P27	K1KA09A00099	9P CONNECTOR	1	
P30-33	K1KA03A00172	3P CONNECTOR	4	
PMM1	TMM7464-2	CLAMPER	1	
PMM2	TMME190	CLAMPER	1	
PMM3,M4	TMME047	CLAMPER	2	
PMM5	TMM7464-2	CLAMPER	1	
PR401	K5Y502B00007	FUSE	1	
PR502	ICP-N50T104	PROTECTOR	1	
PR509,10	K5H501Z00005	FUSE	2	
Q401	B1DHBD000002	TRANSISTOR	1	
Q403	2SD1819A	TRANSISTOR	1	2SD1819AW
Q404	2SB1386RT100	TRANSISTOR	1	
Q406	B1DELQ000002	TRANSISTOR	1	
Q407	XP0460100L	TRANSISTOR	1	
Q410	B1CEJQ000001	TRANSISTOR	1	
Q411	UN5213	TRANSISTOR	1	UNR521300L
Q412,13	B1DEER000003	TRANSISTOR	2	
Q414,15	B1DEGQ000030	TRANSISTOR	2	
Q416	XP0460100L	TRANSISTOR	1	
Q420,21	2SD1819A	TRANSISTOR	2	2SD1819AW
Q501,02	2SD1820A	TRANSISTOR	2	
Q503	UN5111	TRANSISTOR	1	UNR5111
Q504	2SK3065T100	FET	1	B1CFNG000001
Q506	XP0440100L	TRANSISTOR	1	
Q508	UN5210RTX	TRANSISTOR	1	
Q509	XP0440100L	TRANSISTOR	1	
Q510	2SB1218ARL	TRANSISTOR	1	
Q511	B1CBGD000001	TRANSISTOR	1	
Q512	B1DHBD000002	TRANSISTOR	1	
Q513	B1CBGD000001	TRANSISTOR	1	
Q514	B1MBACA00005	TRANSISTOR	1	
Q515	2SK3065T100	FET	1	B1CFNG000001
Q516	B1DHBD000002	TRANSISTOR	1	
Q517	XP0440100L	TRANSISTOR	1	
Q518	B1MBACA00005	TRANSISTOR	1	
Q519	2SK3065T100	FET	1	B1CFNG000001
Q520	B1HFCFA00015	TRANSISTOR	1	
Q521	2SD1819A	TRANSISTOR	1	2SD1819AW
Q522	UN5111	TRANSISTOR	1	UNR5111
Q524	2SD1819A	TRANSISTOR	1	2SD1819AW
Q525	XP0460100L	TRANSISTOR	1	
Q527	B1DEHL000015	TRANSISTOR	1	
Q528	2SD1819A	TRANSISTOR	1	2SD1819AW
Q530	XP4501TX	TRANSISTOR	1	XP0450100L
Q531	2SD23750P	TRANSISTOR	1	
Q532	2SD1819A	TRANSISTOR	1	2SD1819AW
Q535	2SD1819A	TRANSISTOR	1	2SD1819AW
Q537	B1CHND000003	TRANSISTOR	1	
Q540	B1DHBD000002	TRANSISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q541	B1CBGD000001	TRANSISTOR	1	
Q542	XP0460100L	TRANSISTOR	1	
Q543	XP0440100L	TRANSISTOR	1	
Q544	UN5111	TRANSISTOR	1	UNR5111
Q545	2SK3065T100	FET	1	B1CFNG000001
Q546	2SD1819A	TRANSISTOR	1	2SD1819AW
Q547	2SD1119	TRANSISTOR	1	2SD11190L
Q550-52	UN5213	TRANSISTOR	3	UNR521300L
R401-03	ERJ6ENF2003	M 200KOHM, 1/10W	3	
R405-07	ERJ6ENF2003	M 200KOHM, 1/10W	3	
R409	ERJ6ENF3602	M 36KOHM, 1/10W	1	
R410	D0D5200JA032	M 22 OHM,J,1/5W	1	
R411	D1FZ100E0001	F 10 OHM	1	
R412	D0D5200JA032	M 22 OHM,J,1/5W	1	
R413	D1FZ100E0001	F 10 OHM	1	
R414	ERJ8GEYJ153	M 15KOHM, J,1/8W	1	
R415	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R417	ERJ6ENF4303	M 430KOHM, 1/10W	1	
R421	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R423	ERJ6GEYJ2R2	M 2.2 OHM,J,1/10W	1	
R424	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R425	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R426	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R427	ERJ8GEYJ4R7	M 4.7 OHM, J,1/8W	1	
R428	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R429	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R430	ERJ6ENF4303	M 430KOHM, 1/10W	1	
R431	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R432	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R433	ERJ6ENF1202	M 12KOHM, 1/10W	1	
R434	ERJ8GEYJ2R2	M 2.2 OHM, J,1/8W	1	
R436	ERJ8GEYJ153	M 15KOHM, J,1/8W	1	
R437	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R438	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R439	ERJ14YJ120	M 12 OHM, J,1/4W	1	ERJ14YJ120U
R440	ERJ8GEYJ474	M 470KOHM, J,1/8W	1	
R441,42	ERJ6EKF6803	M 680KOHM, 1/10W	2	
R443	EVM(J)SA00B23	CONTROL 2KOHMB	1	
R444	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R448-50	D0XGR10JA007	RESISTOR ARRAY	3	
R451	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R452	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R454	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R456	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R458	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R462	ERJ6ENF4303	M 430KOHM, 1/10W	1	
R463	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R464	ERJ6ENF3302	M 33KOHM, 1/10W	1	
R465	ERJ6ENF5603	M 560KOHM, 1/10W	1	
R466	D0C3104JA014	M 100KOHM,J,1/3W	1	
R467	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R468-70	ERJ6GEYJ474	M 470KOHM,J,1/10W	3	
R471	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R472,73	ERJ6ENF5603	M 560KOHM, 1/10W	2	
R474	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R475	ERJ6EKF6803	M 680KOHM, 1/10W	1	
R476,77	ERJ8GEYJ300	M 30 OHM, J,1/8W	2	
R478	ERJ8GEYJ681	M 680 OHM, J,1/8W	1	ERJ8GEYJ681V
R481	ERJ14YJ621	M 620 OHM, J,1/4W	1	ERJ14YJ621U
R482	ERJ8GEYJ681	M 680 OHM, J,1/8W	1	ERJ8GEYJ681V
R483	ERJ14YJ621	M 620 OHM, J,1/4W	1	ERJ14YJ621U
R484,85	ERJ8GEYJ300	M 30 OHM, J,1/8W	2	
R486	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R489	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R493	ERJ14YJ120	M 12 OHM, J,1/4W	1	ERJ14YJ120U
R494-96	ERJ6ENF5603	M 560KOHM, 1/10W	3	
R497	ERJ6ENF2402	M 24KOHM, 1/10W	1	
R498	ERJ6GEYJ392	M 3.9KOHM,J,1/10W	1	
R499	ERJ8GEYJ4R7	M 4.7 OHM, J,1/8W	1	
R500	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R501	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R502,03	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R504	ERDS2TJ102	C 1KOHM, J,1/4W	1	
R505	ERDS2TJ220	C 22 OHM, J,1/4W	1	
R506	ERDS2TJ102	C 1KOHM, J,1/4W	1	
R507	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R508	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R509	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R510	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R512	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R513,14	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R515	ERDS2TJ102	C 1KOHM, J,1/4W	1	
R516	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R517	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R518	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R519,20	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R521,22	ERJ8GEYJ100	M 10 OHM, J,1/8W	2	
R524	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R527	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R528	ERDS2TJ102	C 1KOHM, J,1/4W	1	
R529	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R530	ERJ6ENF9531	M9.53KOHM, 1/10W	1	
R532	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R534-36	ERJ6GEYJ104	M 100KOHM,J,1/10W	3	
R537	ERJ6ENF5602	M 56KOHM, 1/10W	1	
R538-40	ERJ6GEYJ104	M 100KOHM,J,1/10W	3	
R541-44	ERJ1TRQJR47	M 0.47KHM,J, 1W	4	
R545	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R546	ERJ6ENF2202	M 2.2KOHM, 1/10W	1	
R547-50	ERJ6GEYJ223	M 22KOHM,J,1/10W	4	
R551	ERJ8GEYJ471	M 470 OHM, J,1/8W	1	
R553	ERJ6ENF7501	M 7.5KOHM, 1/10W	1	
R554	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R555,56	ERJ8GEYJ332	M 3.3KOHM, J,1/8W	2	
R557	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R558	ERJ6ENF2702	M 27KOHM, 1/10W	1	
R559	ERJ8GEYJ471	M 470 OHM, J,1/8W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R563	ERJ6GEYJ4R7	M 4.7 OHM,J,1/10W	1	
R564	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R565	ERJ6ENF2201	M 2.2KOHM, 1/10W	1	
R566	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R567	ERJ6ENF1202	M 12KOHM, 1/10W	1	
R569	ERJ6ENF3301	M 3.3KOHM, 1/10W	1	
R570	ERJ6ENF1003	M 100KOHM, 1/10W	1	
R571	ERJ6ENF8201	M 8.2KOHM, 1/10W	1	
R572	ERJ6ENF4701	M 4.7KOHM, 1/10W	1	
R573	ERJ6ENF3301	M 3.3KOHM, 1/10W	1	
R574	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R575	ERJ6GEYJ4R7	M 4.7 OHM,J,1/10W	1	
R576	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R577	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R578	ERJ6ENF2201	M 2.2KOHM, 1/10W	1	
R579	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R580	ERJ6ENF4701	M 4.7KOHM, 1/10W	1	
R581	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R582	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R583	ERJ6ENF7501	M 7.5KOHM, 1/10W	1	
R584	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R585	ERJ6ENF3302	M 33KOHM, 1/10W	1	
R586	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R587	ERJ8GEYJ471	M 470 OHM, J,1/8W	1	
R588	ERJ6ENF4420	M 442 OHM, 1/10W	1	
R589	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R590	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R592	ERJ6ENF3001	M 3KOHM, 1/10W	1	
R593	ERJ6ENF5601	M 5.6KOHM, 1/10W	1	
R594	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R595	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R596	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R597	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R598	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R599	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R600	ERJ8ENF3900	M 390 OHM, 1/8W	1	
R601	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R602,03	ERJ6ENF1002	M 10KOHM, 1/10W	2	
R604	ERJ6GEYJ391	M 390 OHM,J,1/10W	1	
R605,06	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	2	
R608	D3CA61020010	M1.0 KOHM,J,0.5W	1	
R609	ERJ6GEYJ822	M 8.2KOHM,J,1/10W	1	
R610	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R611	ERJ8GEYJ471	M 470 OHM, J,1/8W	1	
R612	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R613	ERJ6ENF2202	M 2.2KOHM, 1/10W	1	
R614	ERJ6ENF5601	M 5.6KOHM, 1/10W	1	
R615	ERJ6ENF3302	M 33KOHM, 1/10W	1	
R624	ERX1SJR22	M0.22 OHM, J, 1W	1	
R631	ERJ8GEYJ123	M 12KOHM, J,1/8W	1	
R632	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R634	ERJ6ENF4700	M 470 OHM, 1/10W	1	
R635	ERJ6ENF1071	M1.07KOHM, 1/10W	1	
R636-39	ERJ8ENF3902	M 39K OHM, 1/8W	4	

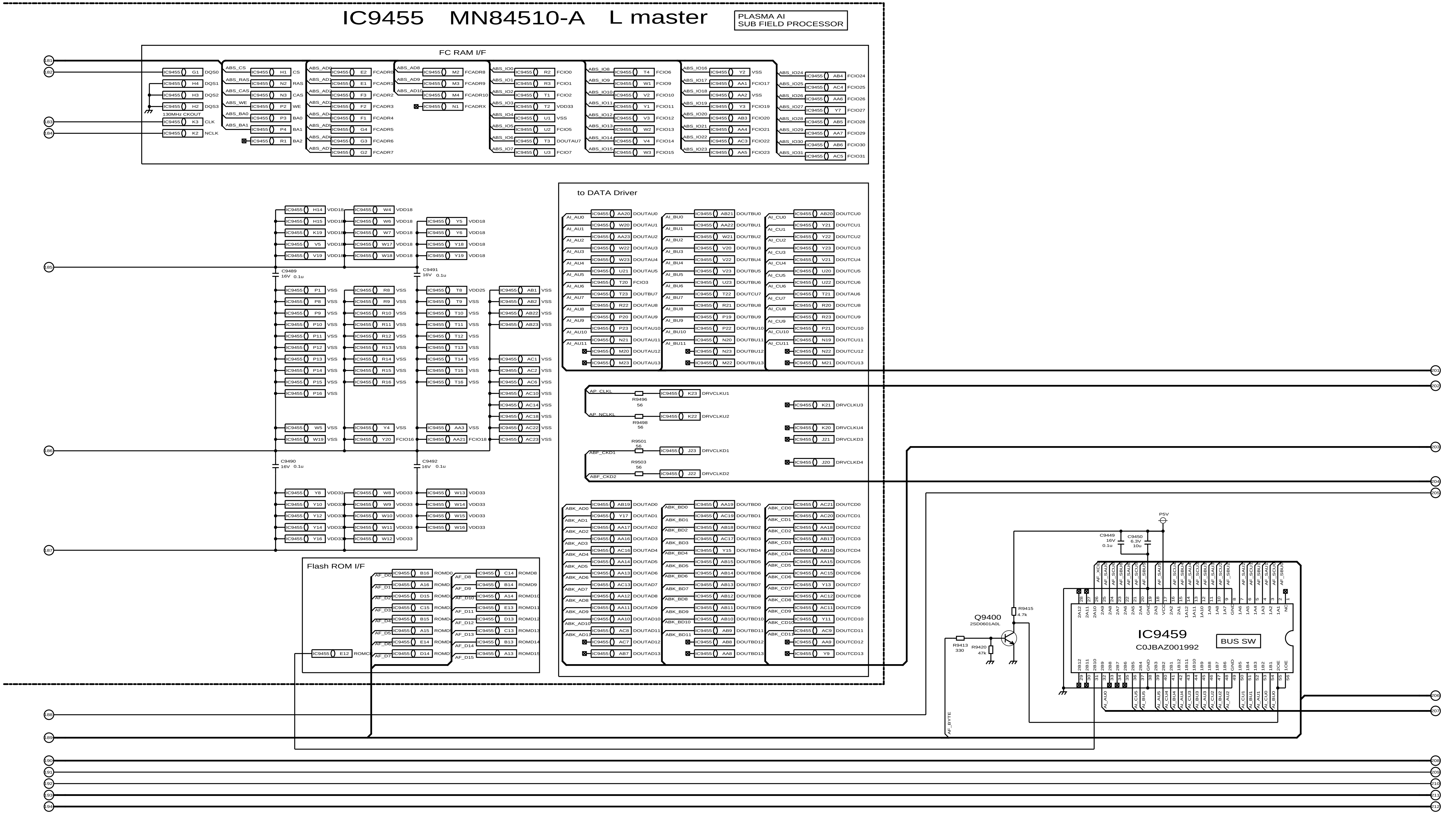
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R640	ERJ6ENF3001	M 3KOHM, 1/10W	1	
R641	EVM(J)SA00B33	CONTROL 3KOHMB	1	
R642-45	ERJ8ENF3902	M 39K OHM, 1/8W	4	
R646	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R649	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R650	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R651	ERG1SJ221	M 220 OHM, J, 1W	1	
R652	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R653,54	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	2	
R656,57	ERJ8GEYJ332	M 3.3KOHM, J,1/8W	2	
R658	ERJ6ENF6201	M 6.2KOHM, 1/10W	1	
R659	ERJ6ENF2202	M 2.2KOHM, 1/10W	1	
R660	ERJ6ENF1202	M 12KOHM, 1/10W	1	
R661	EVM(J)SA00B53	CONTROL 5KOHMB	1	
R662	ERJ6ENF1303	M 130KOHM, 1/10W	1	
R663	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R664	ERJ6ENF9101	M 9.1KOHM, 1/10W	1	
R665	EVM(J)SA00B23	CONTROL 2KOHMB	1	
R666	ERJ6ENF9101	M 9.1KOHM, 1/10W	1	
R667	ERJ6ENF5101	M 5.1KOHM, 1/10W	1	
R668	ERJ6ENF2401	M 2.4KOHM, 1/10W	1	
R669	ERJ6ENF1303	M 130KOHM, 1/10W	1	
R670,71	ERJ6ENF2202	M 2.2KOHM, 1/10W	2	
R672	ERJ6ENF1502	M 15KOHM, 1/10W	1	
R673	ERJ6ENF5101	M 5.1KOHM, 1/10W	1	
R674,75	ERJ8GEYJ124	M 120KOHM, J,1/8W	2	
R676	ERJ8GEYJ123	M 12KOHM, J,1/8W	1	
R677	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R678	ERDS2TJ223	C 22KOHM, J,1/4W	1	
R679,80	ERJ6ENF2202	M 2.2KOHM, 1/10W	2	
R681	ERJ6GEYJ154	M 150KOHM,J,1/10W	1	
R682,83	ERJ3GEYJ2R2	M 2.2 OHM,J,1/16W	2	
R685	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R686	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R687	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R688	ERJ6GEYJ154	M 150KOHM,J,1/10W	1	
R689	ERG3SJ101	M 100 OHM, J, 3W	1	
R690	ERJ6ENF3002	M 30KOHM, 1/10W	1	
R692	ERJ8GEYJ124	M 120KOHM, J,1/8W	1	
R694	ERJ6GEYJ220	M 22 OHM,J,1/10W	1	
R695-97	ERJ8GEYJ124	M 120KOHM, J,1/8W	3	
R698	ERJ6GEYJ4R7	M 4.7 OHM,J,1/10W	1	
R699	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
RL401	K6B1AGA00086	RELAY	1	
RL402	K6B1AGA00177	REALY	1	
T401	G4D4A0000073	SWITCHING TRANSFORMER	1	
T402,03	ETS19AB1T6AG	SWITCHING TRANS	2	
T404	ETS28LZ116AD	SWITCHING TRANS	1	
T405	ETS42LZ116AD	SWITCHING TRANS	1	
T407	ETQ11K5AZ	CHOKE TRANS	1	
T410	ETS25AD1J6AH	SWITCHING TRANS	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
X501	H2B400400021	CRYSTAL	1	
Z415	TMM23417	CLAMPER	3	
ZN402	D4EAD6210001	VARISTOR	1	

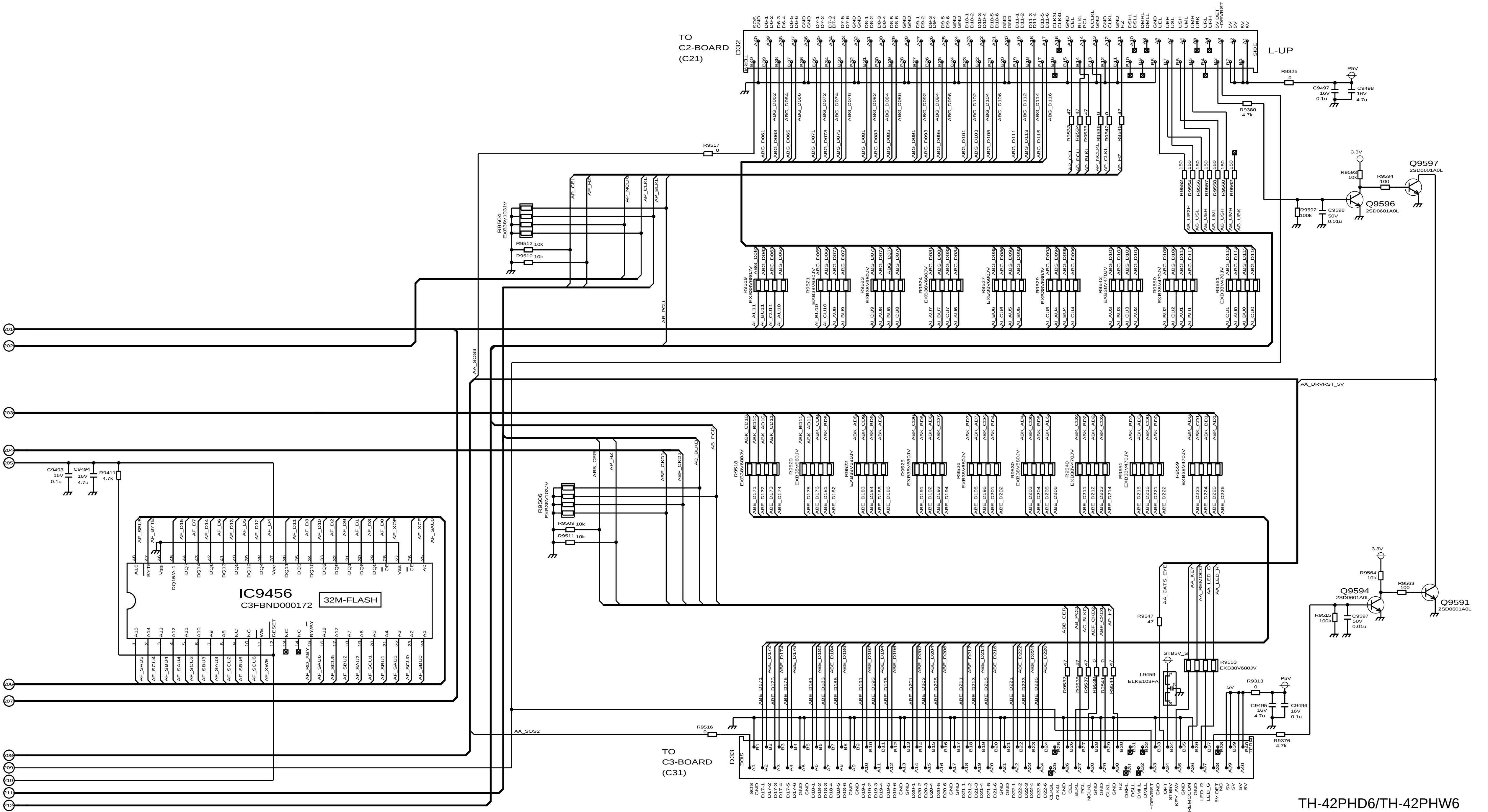
18. Schematic Diagram for printing with A4

19. Cover for printing with A4

⚠ D-BOARD TZTNP01QJSU (14/15)


IC9455 MN84510-A L master
PLASMA AI
SUB FIELD PROCESSOR
FC RAM I/F
130MHz CKOUT
to DATA Driver
Flash ROM I/F
C9489
16V 0.1u
C9490
16V 0.1u
C9491
16V 0.1u
C9492
16V 0.1u
R9496
56
R9498
56
R9501
56
R9503
56
P5V
C9449
16V
0.1u
C9450
6.3V
10u
Q9400
2SD0601A0L
R9415
4.7k
R9413
330
R9420
47k
IC9459
C0JBAZ001992
BUS SW
AF_BYTE

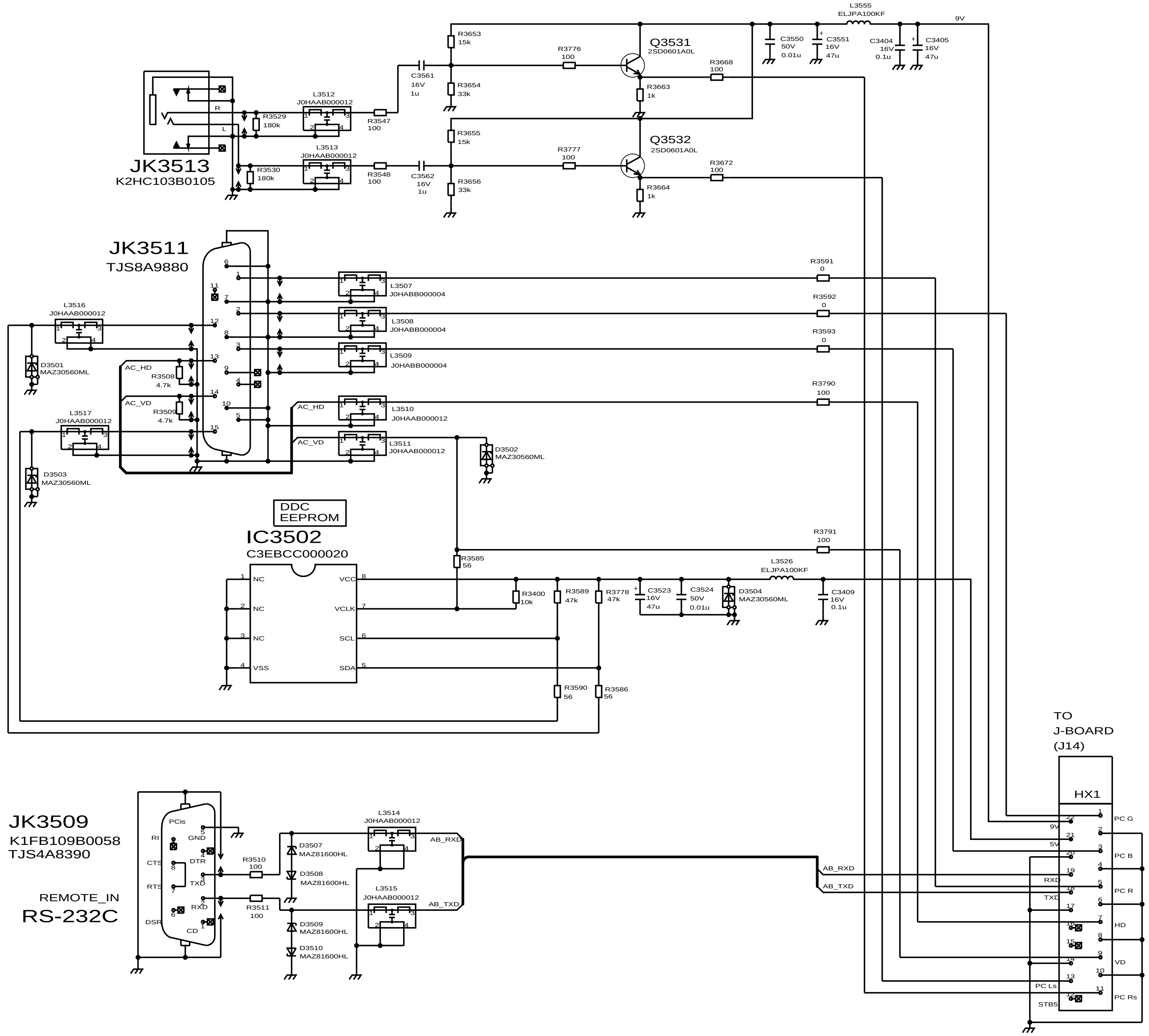
⚠ D-BOARD TZTNP01QJSU (15/15)


TO
C2-BOARD
(C21)
D32
L-UP
R9325
P5V
C9497 16V 0.1u
C9498 16V 4.7u
R9380 4.7k
R9517
R9904
R9512 10k
R9510 10k
R9593 10k
R9594 100
Q9597
2SD0601A0L
Q9596
2SD0601A0L
R9592 100k
C9598 50V 0.01u
3.3V
AA_DRVRST_5V
AA_SOS3
AB_PCU
C9493 16V 0.1u
C9494 16V 4.7u
R9411 4.7k
IC9456
C3FBND000172
32M-FLASH
R9506
R9509 10k
R9511 10k
R9564 10k
R9563 100
Q9594
2SD0601A0L
Q9591
2SD0601A0L
R9515 100k
C9597 50V 0.01u
R9547 47
R9553
EXB38V680JV
L9459
ELKE103FA
STB5V_S
R9313
C9495 16V 4.7u
C9496 16V 0.1u
R9376 4.7k
R9516
AA_SOS2
TO
C3-BOARD
(C31)
D33

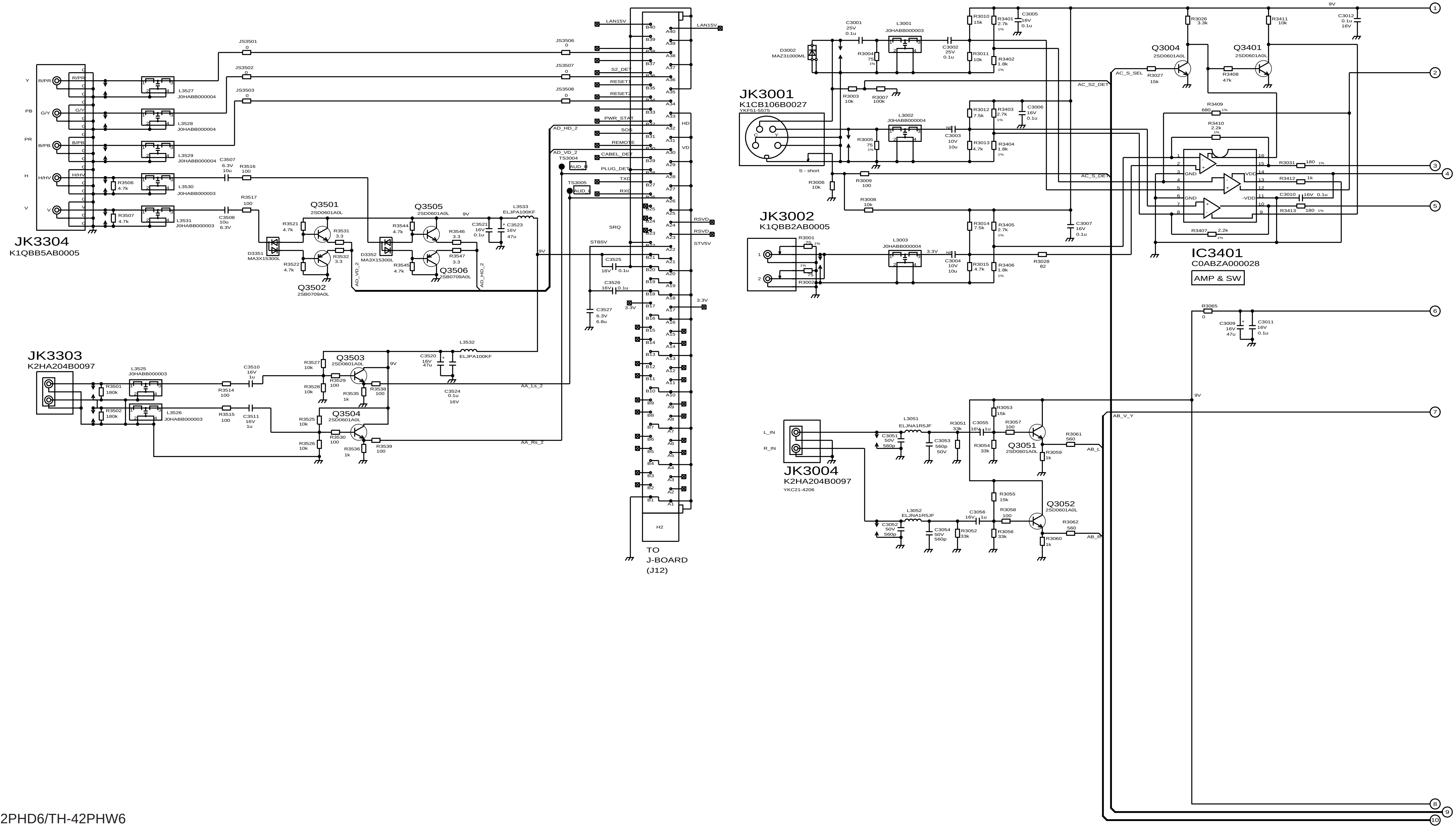
TH-42PHD6/TH-42PHW6 D-BOARD (15 of 15) Schematic Diagram

TH-42PHD6/TH-42PHW6
D-BOARD (15 of 15) Schematic Diagram

HX-BOARD TZTNP020QJS

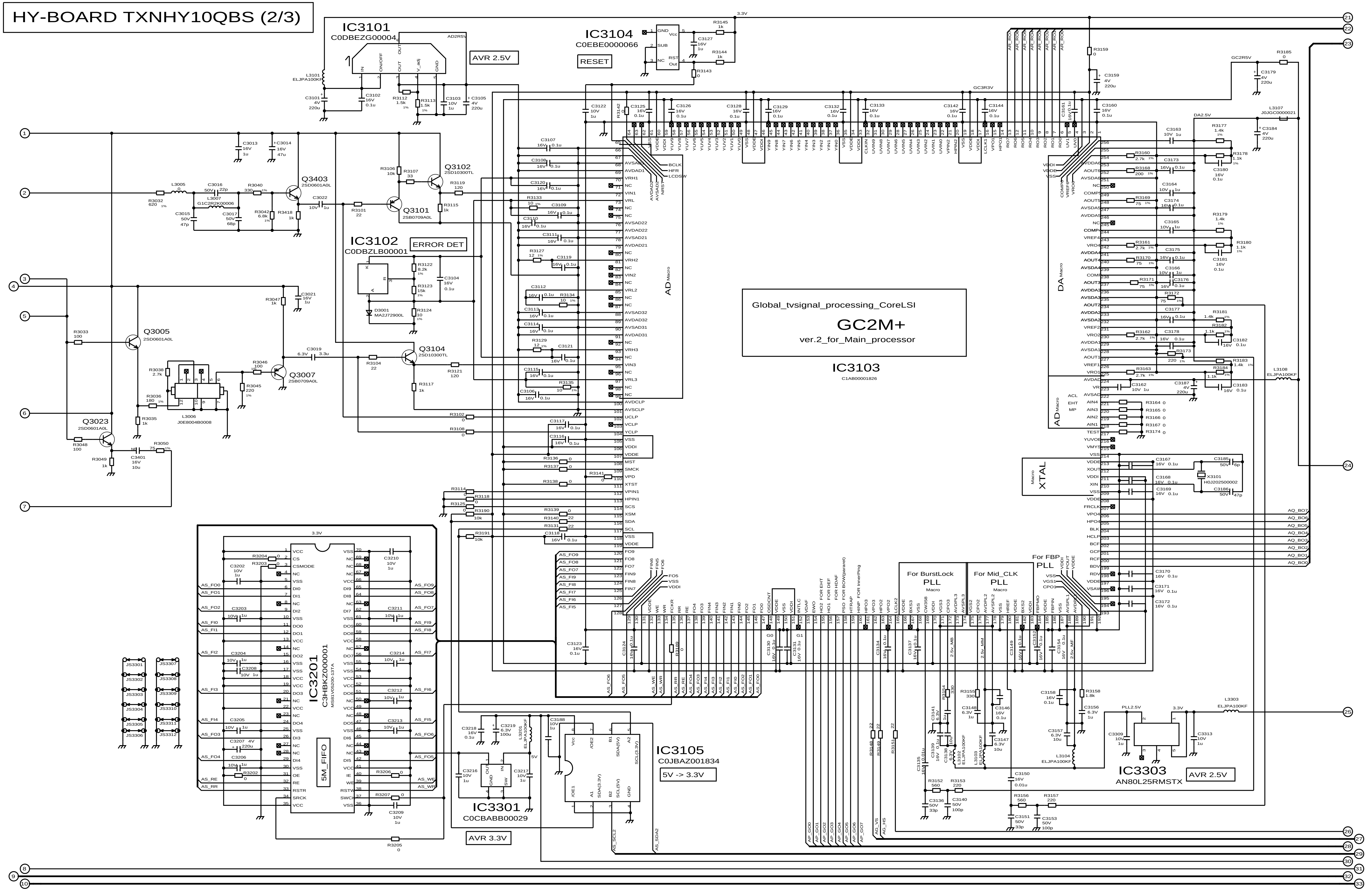

JK3513
K2HC103B0105
R
L
R3529 180k
R3530 180k
L3512 J0HAAB000012
L3513 J0HAAB000012
R3547 100
R3548 100
C3561 16V 1u
C3562 16V 1u
R3653 15k
R3654 33k
R3655 15k
R3656 33k
R3776 100
R3777 100
Q3531 2SD0601A0L
Q3532 2SD0601A0L
R3663 1k
R3664 1k
R3668 100
R3672 100
C3550 50V 0.01u
C3551 16V 47u
L3555 ELJPA100KF
C3404 16V 0.1u
C3405 16V 47u
9V
JK3511
TJS8A9880
L3516 J0HAAB000012
D3501 MAZ30560ML
AC_HD
AC_VD
R3508 4.7k
R3509 4.7k
L3517 J0HAAB000012
D3503 MAZ30560ML
L3507 J0HABB000004
L3508 J0HABB000004
L3509 J0HABB000004
L3510 J0HAAB000012
L3511 J0HAAB000012
D3502 MAZ30560ML
R3591 0
R3592 0
R3593 0
R3790 100
DDC EEPROM
IC3502
C3EBCC000020
NC
NC
NC
VSS
VCC
VCLK
SCL
SDA
R3585 56
R3791 100
R3400 10k
R3589 47k
R3778 47k
C3523 16V 47u
C3524 50V 0.01u
D3504 MAZ30560ML
L3526 ELJPA100KF
C3409 16V 0.1u
R3590 56
R3586 56
TO J-BOARD (J14)
HX1
9V
5V
RXD
TXD
PC Ls
STB5
PC G
PC B
PC R
HD
VD
PC Rs
JK3509
K1FB109B0058
TJS4A8390
REMOTE_IN
RS-232C
PCis
GND
DTR
TXD
RXD
CD
RI
CTS
RTS
DSR
R3510 100
R3511 100
D3507 MAZ81600HL
D3508 MAZ81600HL
D3509 MAZ81600HL
D3510 MAZ81600HL
L3514 J0HAAB000012
L3515 J0HAAB000012
AB_RXD
AB_TXD
A
B
C
D
E
1
2
3
4
5
6
7
8

HY-BOARD TXNHY10QBS (1/3)


JK3304
K1QBB5AB0005
Y
PB
PR
H
V
R/PR
G/Y
B/PB
H/HV
V
L3527
J0HABB000004
L3528
J0HABB000004
L3529
J0HABB000004
L3530
J0HABB000003
L3531
J0HABB000003
R3506
4.7k
R3507
4.7k
JS3501
JS3502
JS3503
JS3506
JS3507
JS3508
C3507
C3508
R3516
R3517
Q3501
2SD0601A0L
Q3502
2SB0709A0L
Q3505
2SD0601A0L
Q3506
2SB0709A0L
D3351
MA3X15300L
D3352
MA3X15300L
L3533
ELJPA100KF
AD_HD_2
AD_VD_2
TS3004
TS3005
AUD_R
AUD_L
LAN15V
S2_DET
RESET1
RESET2
PWR_STAT
SOS
REMOTE
CABEL_DET
PLUG_DET
TXD
RXD
SRQ
STB5V
RSVD
STV5V
HD
VD
3.3V
9V
JK3303
K2HA204B0097
L3525
J0HABB000003
L3526
J0HABB000003
R3501
180k
R3502
180k
Q3503
2SD0601A0L
Q3504
2SD0601A0L
L3532
ELJPA100KF
AA_Ls_2
AA_Rs_2
H2
TO
J-BOARD
(J12)
JK3001
K1CB106B0027
YKF51-5575
S - short
D3002
MAZ31000ML
L3001
J0HABB000003
L3002
J0HABB000004
L3003
J0HABB000004
JK3002
K1QBB2AB0005
Q3004
2SD0601A0L
Q3401
2SD0601A0L
AC_S_SEL
AC_S2_DET
AC_S_DET
IC3401
C0ABZA000028
AMP & SW
GND
VDD
-VDD
JK3004
K2HA204B0097
YKC21-4206
L_IN
R_IN
L3051
ELJNA1R5JF
L3052
ELJNA1R5JF
Q3051
2SD0601A0L
Q3052
2SD0601A0L
AB_L
AB_R
AB_V_Y
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩

TH-42PHD6/TH-42PHW6
HY-BOARD (1 of 3) Schematic Diagram

HY-BOARD TXNHY10QBS (2/3)

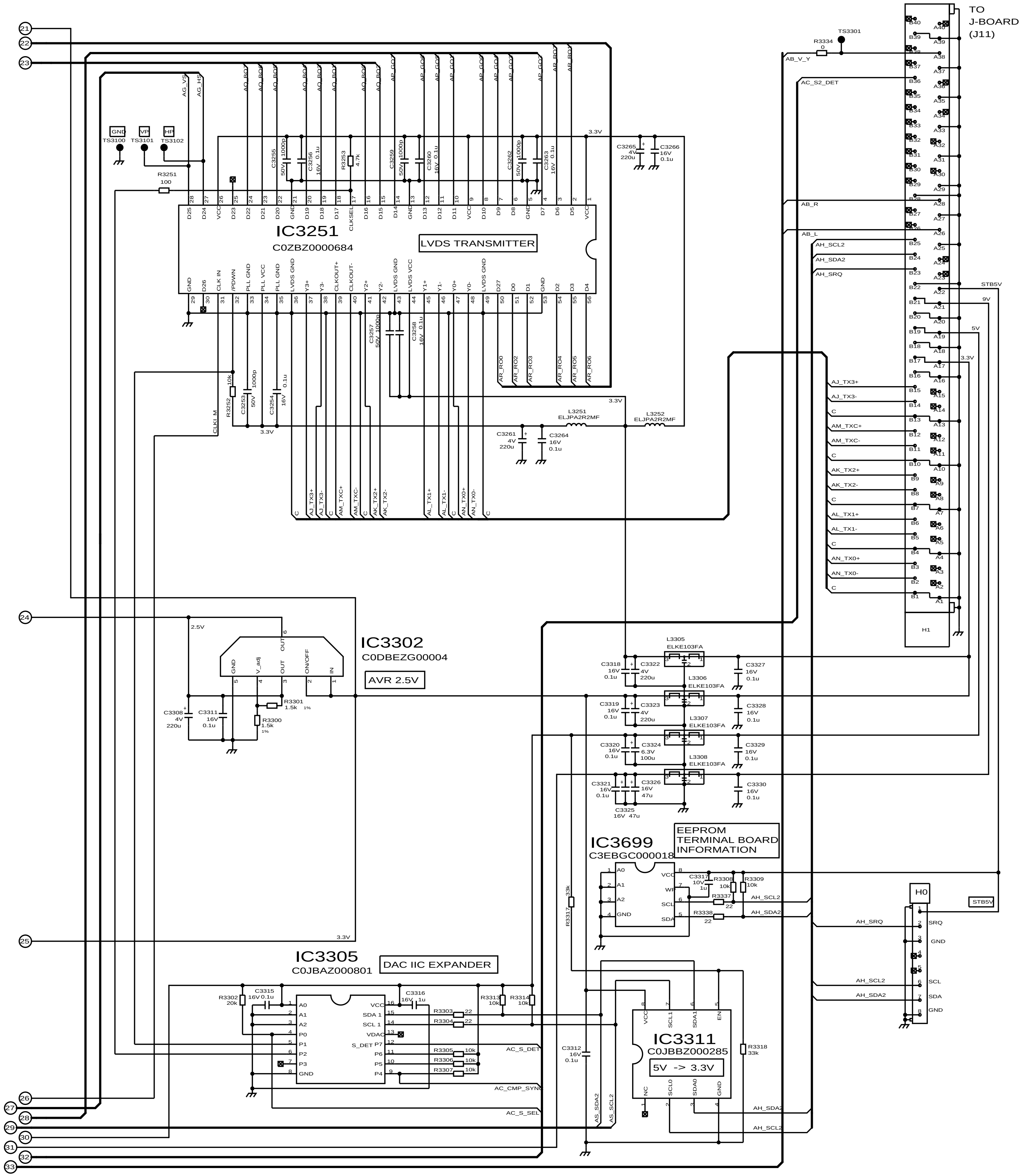


IC3101
C0DBEZG00004
AVR 2.5V
IC3104
C0EBE0000066
RESET
IC3102
C0DBZLB00001
ERROR DET
Global_tvsignal_processing_CoreLSI
GC2M+
ver.2_for_Main_processor
IC3103
C1AB00001826
AD
DA
XTAL
For BurstLock
PLL
For Mid_CLK
PLL
For FBP
PLL
IC3201
C3HBKZ000001
5M_FIFO
IC3301
C0CBABB00029
AVR 3.3V
IC3105
C0JBAZ001834
5V -> 3.3V
IC3303
AN80L25RMSTX
AVR 2.5V
Q3403
2SD0601A0L
Q3102
2SD10300TL
Q3101
2SB0709A0L
Q3005
2SD0601A0L
Q3104
2SD10300TL
Q3007
2SB0709A0L
Q3023
2SD0601A0L
L3006
J0E8004B0008
D3001
MA2J72900L
X3101
H0J202500002
3.3V
GC3R3V
GC2R5V
DA2.5V
PLL2.5V

TH-42PHD6/TH-42PHW6 HY-BOARD (2 of 3) Schematic Diagram

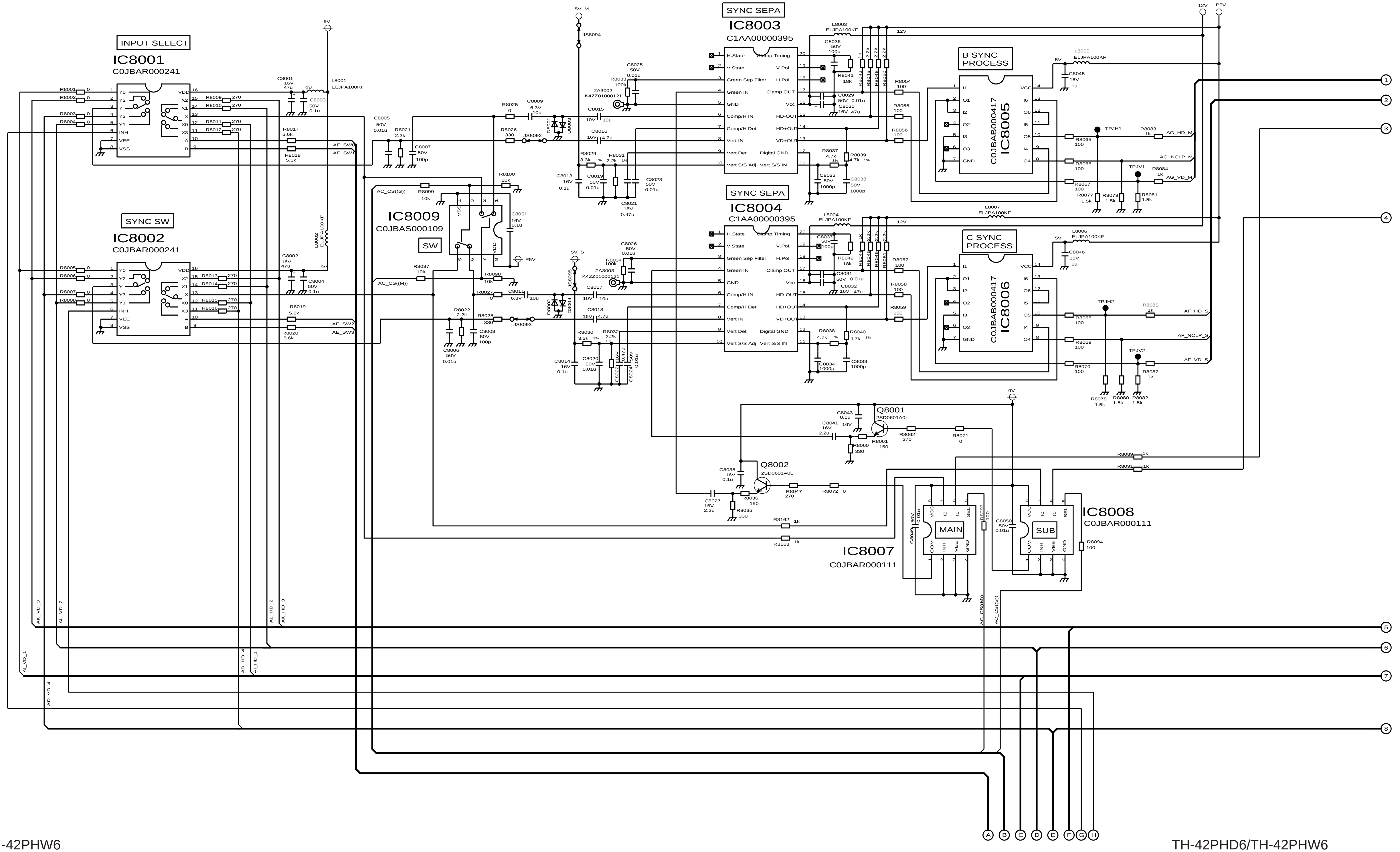
TH-42PHD6/TH-42PHW6 HY-BOARD (2 of 3)Schematic Diagram

⚠ HY-BOARD TXNHY10QBS (3/3)


TO
J-BOARD
(J11)
IC3251
C0ZBZ0000684
LVDS TRANSMITTER
IC3302
C0DBEZG00004
AVR 2.5V
IC3699
C3EBGC000018
EEPROM
TERMINAL BOARD
INFORMATION
IC3305
C0JBAZ000801
DAC IIC EXPANDER
IC3311
C0JBBZ000285
5V -> 3.3V
H0
H1
TS3100
TS3101
TS3102
TS3301
GND
VP
HP
R3251
100
R3252
10k
R3253
4.7k
R3334
0
L3251
ELJPA2R2MF
L3252
ELJPA2R2MF
L3305
ELKE103FA
L3306
ELKE103FA
L3307
ELKE103FA
L3308
ELKE103FA
R3300
1.5k
R3301
1.5k
R3302
20k
R3303
22
R3304
22
R3305
10k
R3306
10k
R3307
10k
R3308
10k
R3309
10k
R3313
10k
R3314
10k
R3317
33k
R3318
33k
R3337
22
R3338
22
C3253
C3254
C3255
C3256
C3257
C3258
C3259
C3260
C3261
C3262
C3263
C3264
C3265
C3266
C3308
C3311
C3312
C3315
C3316
C3317
C3318
C3319
C3320
C3321
C3322
C3323
C3324
C3325
C3326
C3327
C3328
C3329
C3330
3.3V
2.5V
STB5V
9V
5V
AB_V_Y
AC_S2_DET
AB_R
AB_L
AH_SCL2
AH_SDA2
AH_SRQ
AJ_TX3+
AJ_TX3-
AM_TXC+
AM_TXC-
AK_TX2+
AK_TX2-
AL_TX1+
AL_TX1-
AN_TX0+
AN_TX0-
AC_S_DET
AC_CMP_SYNC
AC_S_SEL
AS_SDA2
AS_SCL2
CLKI_M
SRQ
GND
SCL
SDA
21
22
23
24
25
26
27
28
29
30
31
32
33

TH-42PHD6/TH-42PHW6 HY-BOARD (3 of 3) Schematic Diagram

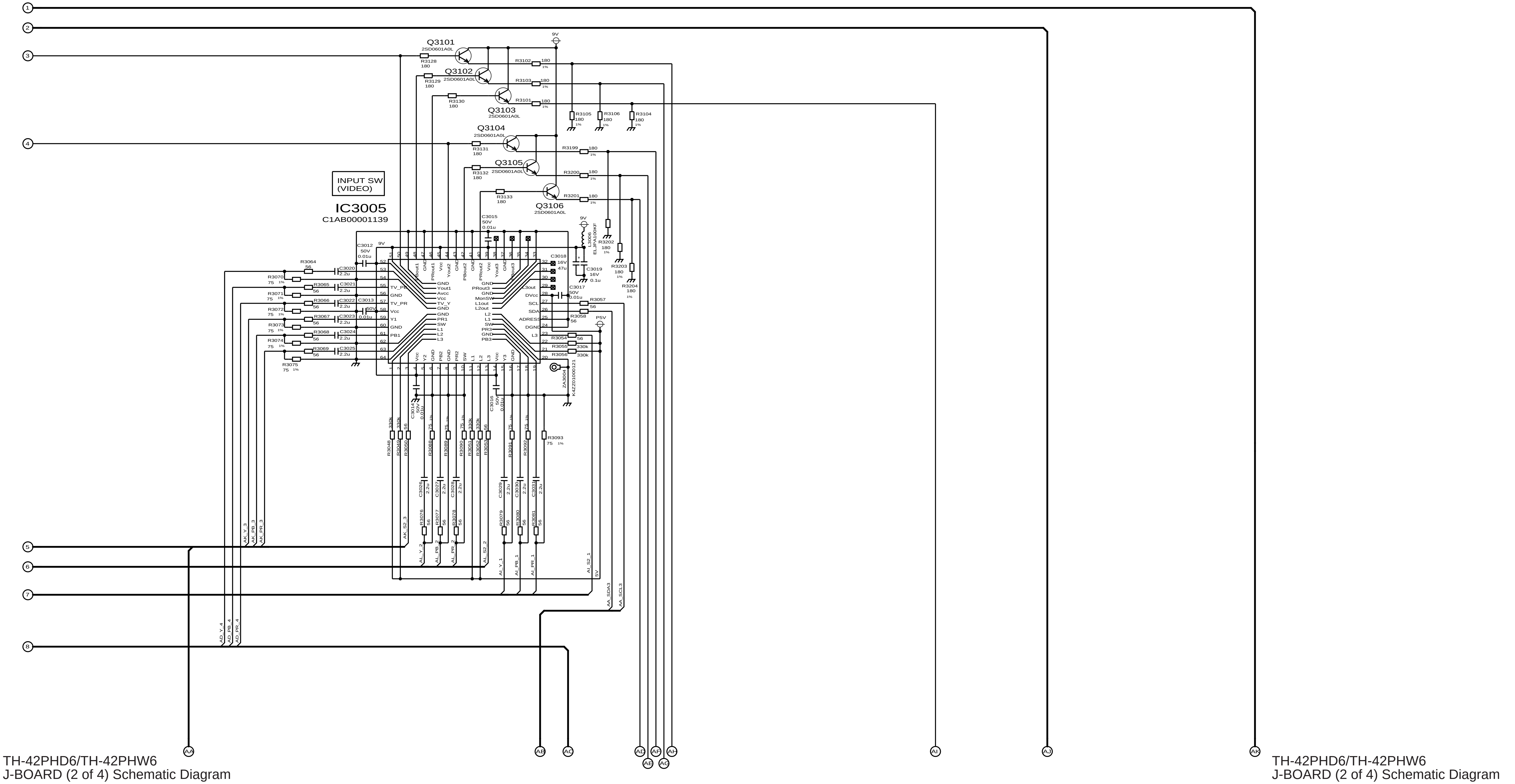
J-BOARD TNPA2826 (1/4)


INPUT SELECT
IC8001
C0JBAR000241
SYNC SW
IC8002
C0JBAR000241
IC8009
C0JBAS000109
SW
SYNC SEPA
IC8003
C1AA00000395
SYNC SEPA
IC8004
C1AA00000395
B SYNC PROCESS
IC8005
C0JBAB000417
C SYNC PROCESS
IC8006
C0JBAB000417
Q8001
2SD0601A0L
Q8002
2SD0601A0L
IC8007
C0JBAR000111
MAIN
IC8008
C0JBAR000111
SUB
L8001 ELJPA100KF
L8002 ELJPA100KF
L8003 ELJPA100KF
L8004 ELJPA100KF
L8005 ELJPA100KF
L8006 ELJPA100KF
L8007 ELJPA100KF
ZA3002 K4ZZ01000121
ZA3003 K4ZZ01000121
9V
5V_M
5V_S
12V
P5V
5V
AE_SW0
AE_SW1
AE_SW2
AE_SW3
AC_CS((S))
AC_CS((M))
AG_HD_M
AG_NCLP_M
AG_VD_M
AF_HD_S
AF_NCLP_S
AF_VD_S
TPJH1
TPJV1
TPJH2
TPJV2
AK_VD_3
AL_VD_2
AL_HD_2
AK_HD_3
AI_VD_1
AD_HD_4
AI_HD_1
AD_VD_4
AC_CS(M)
AC_CS(S)
H.State
V.State
Green Sep Filter
Green IN
GND
Comp/H IN
Comp/H Det
Vert IN
Vert Det
Vert S/S Adj
Clamp Timing
V.Pol.
H.Pol.
Clamp OUT
Vcc
HD-OUT
HD+OUT
VD+OUT
Digital GND
Vert S/S IN
1
2
3
4
5
6
7
8
A
B
C
D
E
F
G
H

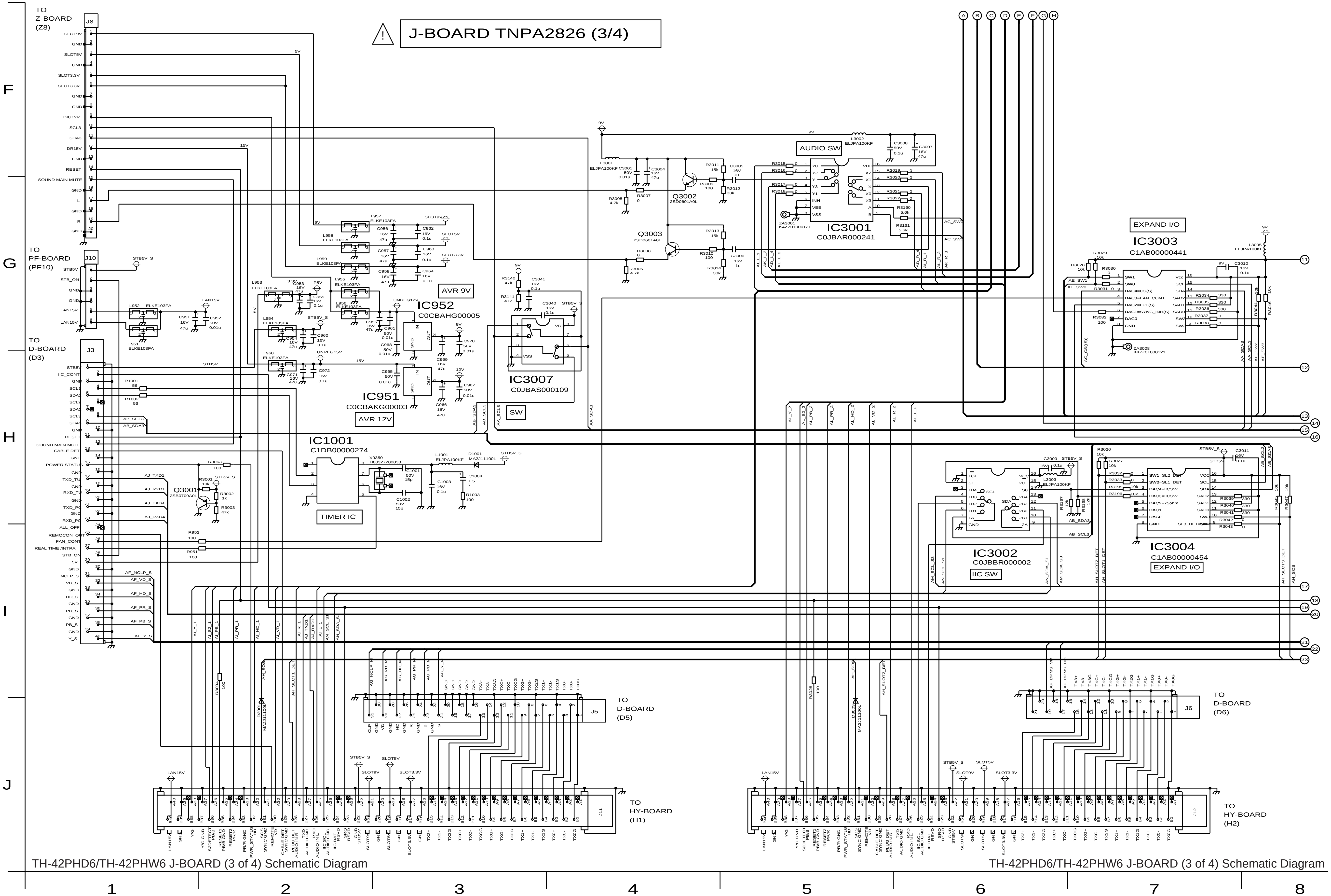
TH-42PHD6/TH-42PHW6
J-BOARD (1 of 4) Schematic Diagram

TH-42PHD6/TH-42PHW6
J-BOARD (1 of 4) Schematic Diagram

J-BOARD TNPA2826 (2/4)


INPUT SW (VIDEO)
IC3005
C1AB00001139
Q3101
Q3102
Q3103
Q3104
Q3105
Q3106
2SD0601A0L
R3128
R3129
R3130
R3131
R3132
R3133
R3101
R3102
R3103
R3104
R3105
R3106
R3199
R3200
R3201
R3202
R3203
R3204
9V
P5V
L3006
ELJPA100KF
C3012
C3013
C3014
C3015
C3016
C3017
C3018
C3019
C3020
C3021
C3022
C3023
C3024
C3025
C3026
C3027
C3028
C3029
C3030
C3031
R3048
R3049
R3050
R3051
R3052
R3053
R3054
R3055
R3056
R3057
R3058
R3064
R3065
R3066
R3067
R3068
R3069
R3070
R3071
R3072
R3073
R3074
R3075
R3076
R3077
R3078
R3079
R3080
R3081
R3088
R3089
R3090
R3091
R3092
R3093
ZA3004
K4ZZ01000121
TV_PB
GND
TV_PR
Vcc
Y1
PB1
TV_Y
PR1
SW
L1
L2
L3
Yout1
Avcc
PRout1
PBout1
PRout2
PBout2
Yout2
Yout3
PRout3
PBout3
L3out
DVcc
SCL
SDA
ADRESS
DGND
MonSW
L1out
L2out
PR3
PB3
Y2
Y3
PB2
PR2
AK_Y_3
AK_PB_3
AK_PR_3
AK_S2_3
AL_Y_2
AL_PB_2
AL_PR_2
AL_S2_2
AI_Y_1
AI_PB_1
AI_PR_1
AI_S2_1
5V
AA_SDA3
AA_SCL3
AD_Y_4
AD_PB_4
AD_PR_4
①
②
③
④
⑤
⑥
⑦
⑧
AA
AB
AC
AD
AE
AF
AG
AH
AI
AJ
AK

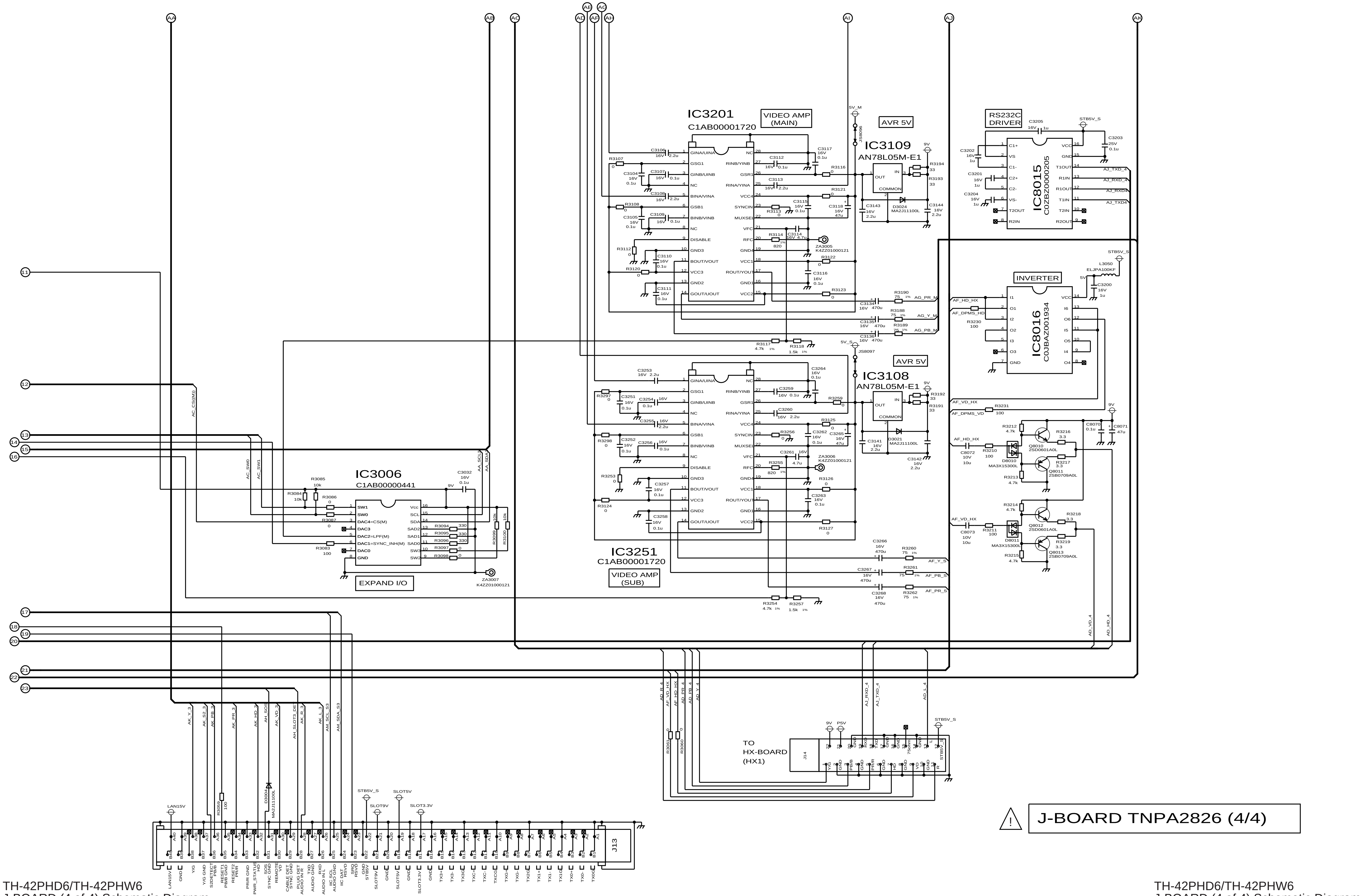
J-BOARD TNPA2826 (3/4)



TO Z-BOARD (Z8)
J8
TO PF-BOARD (PF10)
J10
TO D-BOARD (D3)
J3
AUDIO SW
IC3001
C0JBAR000241
Q3002
2SD0601A0L
Q3003
2SD0601A0L
EXPAND I/O
IC3003
C1AB00000441
AVR 9V
IC952
C0CBAHG00005
IC951
C0CBAKG00003
AVR 12V
IC3007
C0JBAS000109
SW
IC1001
C1DB00000274
TIMER IC
Q3001
2SB0709A0L
IC3002
C0JBBR000002
IIC SW
IC3004
C1AB00000454
EXPAND I/O
J5
TO D-BOARD (D5)
J6
TO D-BOARD (D6)
J11
TO HY-BOARD (H1)
J12
TO HY-BOARD (H2)
A
B
C
D
E
F
G
H
F
G
H
I
J
1
2
3
4
5
6
7
8

TH-42PHD6/TH-42PHW6 J-BOARD (3 of 4) Schematic Diagram

TH-42PHD6/TH-42PHW6 J-BOARD (3 of 4) Schematic Diagram


IC3201
C1AB00001720
VIDEO AMP (MAIN)
IC3251
C1AB00001720
VIDEO AMP (SUB)
IC3109
AN78L05M-E1
AVR 5V
IC3108
AN78L05M-E1
AVR 5V
IC8015
C0ZBZ0000205
RS232C DRIVER
IC8016
C0JBAZ001934
INVERTER
IC3006
C1AB00000441
EXPAND I/O
TO HX-BOARD (HX1)
J14
J13
5V_M
5V_S
STB5V_S
9V
P5V
LAN15V
SLOT9V
SLOT5V
SLOT3.3V
ZA3005 K4ZZ01000121
ZA3006 K4ZZ01000121
ZA3007 K4ZZ01000121
Q8010 2SD0601A0L
Q8011 2SB0709A0L
Q8012 2SD0601A0L
Q8013 2SB0709A0L
D8010 MA3X15300L
D8011 MA3X15300L
D3024 MA2J11100L
D3021 MA2J11100L
D3004 MA2J11100L
L3050 EL JPA100KF
AG_PR_M
AG_Y_M
AG_PB_M
AF_Y_S
AF_PB_S
AF_PR_S
AF_HD_HX
AF_DPMS_HD
AF_VD_HX
AF_DPMS_VD
AJ_TXD_4
AJ_RXD_4
AJ_RXD
AJ_TXD
AD_VD_4
AD_HD_4
AC_CS(M)
AC_SW0
AC_SW1
AA_SCL
AA_SDA
AA
AB
AC
AD
AE
AF
AG
AH
AI
AJ
AK
11
12
13
14
15
16
17
18
19
20
21
22
23
8
9
10
11
12
13
14
15

J-BOARD TNPA2826 (4/4)

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacture's specified parts.

Notes:

1. **Resistor**
   All resistors are cabon 1/4W resistor, unless marked as follows:
   Unit of resistance is OHM [ ] (K=1,000, M=1,000,000).

○	: Nonflammable	☒	: Metal Oxide
△	: Solid	◎	: Metal Film
⧄	: Wire Wound	⊗	: Fuse**:**

2. **Capacitor**
   All capacitors are ceramic 50V capacitor, unless marked as follows:
   Unit of capacitance is F, unless otherwise noted.

⊗	: Temperature Compensation	+ ⊣⊢	: Electrolytic
Ⓜ	: Polyester	NP ⊣⊢	: Bipolar
ⓜ	: Metalized Polyester	Ⓣ	: Dipped Tantalum
☒	: Polypropylene	Ⓩ	: Z-Type

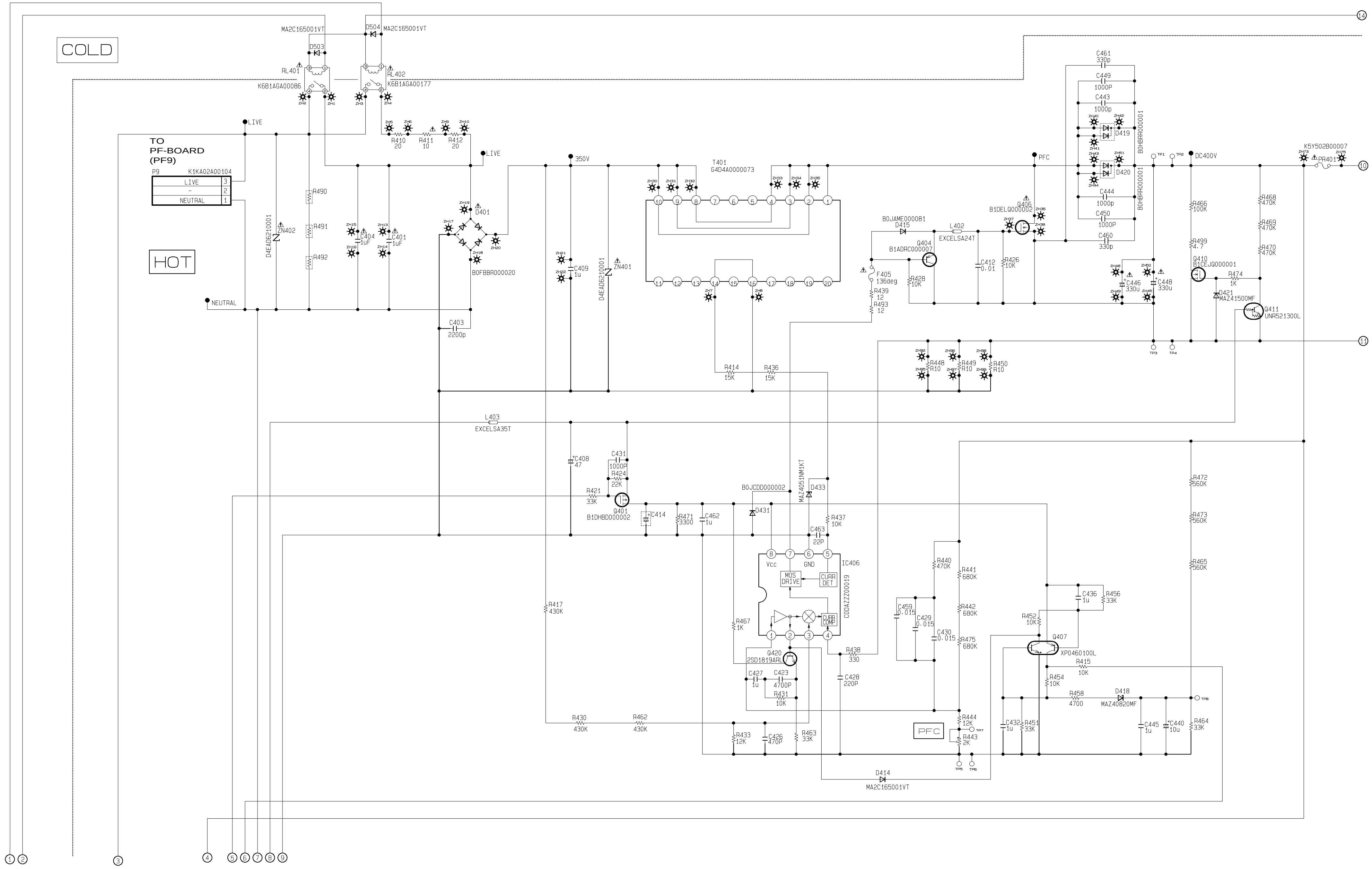
3. Coil
   Unit of inductance is F, unless otherwise noted.
4. Test Point
   ⚲ : Test Point position
5. Earth Symbol
   ⏚ : Chassis Earth (Cold) ▽ : Line Earth (Hot)
6. Voltage Measurement
   Voltage is measured by a DC voltmeter.
   Conditions of the measurement are the following:
   Power Source ....AC 120V, 50/60Hz
   (UY VERSION model)/
   AC220-240V, 50/60Hz
   (Except UY VERSION)
   Receiving Signal .... Colour Bar signal (RF)
   All customer's controls .... Maximum positions
7. Number in red circle indicates waveform nember.
   (See waveform pattern table.)
8. When arrow mark (↗) is found, connection is easily found from the direction of arrow

9. Indicates the major signal flow. : Video ➡ Audio ⇨
10. This schematic diagram is the latest at the time of printing and subject to change without notice.

Remarks:

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
   The circuit is defined by HOT and COLD indications in the schematic diagram. Take the follwing precautions.
   All circuits, except the Power Circuit, are cold.
   Precautions
   - a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
   - b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
   - c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
     Connect the earth of instruments to the earth connection of the circuit being measured.
   - d. Make sure to disconnect the power plug before removing the chassis.
2. Following diodes are interchangeable.
   MA150- MA162 (Replacement part)

⚠ P-BOARD TNPA2889 (1/6)


COLD
HOT
TO PF-BOARD (PF9)
P9 K1KA02A00104
LIVE
NEUTRAL
MA2C165001VT
D503
D504
RL401
K6B1AGA00086
RL402
K6B1AGA00177
R410 20
R411 10
R412 20
R490
R491
R492
ZN402
D4EAD5210001
C404 1uF
C401 1uF
D401
B0FBBR000020
C403 2200p
350V
C409 1u
ZN401
D4EAD5210001
T401
G4D4A0000073
B0JAME000081
D415
L402
EXCELSA24T
Q405
B1DELQ000002
Q404
B1ADRC000007
F405 136deg
R439 12
R493 12
R428 10K
C412 0.01
R426 10K
PFC
C461 330p
C449 1000P
C443 1000p
D419
D420
B0HBBR000001
C444 1000p
C450 1000P
C460 330p
C446 330u
C448 330u
TP1
TP2
DC400V
R466 100K
R499 4.7
Q410
B1CEJQ000001
R474 1K
D421
MAZ41500MF
Q411
UNR521300L
R468 470K
R469 470K
R470 470K
K5Y502B00007
PR401
TP3
TP4
R414 15K
R436 15K
R448 R10
R449 R10
R450 R10
L403
EXCELSA35T
C408 47
C431 1000P
R424 22K
R421 33K
Q401
B1DHBD000002
C414
R471 3300
C462 1u
B0JCDD000002
D431
MAZ4051NM1KT
D433
R437 10K
C463 22P
IC406
C0DAZZ000019
Vcc
GND
MOS DRIVE
CURR DET
CURR COMP
R467 1K
Q420
2SD1819ARL
C427 1u
C423 4700P
R431 10K
R438 330
C428 220P
R417 430K
R430 430K
R462 430K
R433 12K
C426 470P
R463 33K
C459 0.015
C429 0.015
C430 0.015
R440 470K
R441 680K
R442 680K
R475 680K
R444 12K
R443 2K
TP5
TP6
TP7
PFC
D414
MA2C165001VT
C436 1u
R456 33K
R452 10K
Q407
XP0460100L
R415 10K
R454 10K
R458 4700
D418
MAZ40820MF
TP8
C432 1u
R451 33K
C445 1u
C440 10u
R464 33K
R472 560K
R473 560K
R465 560K
①
②
③
④
⑤
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⑧
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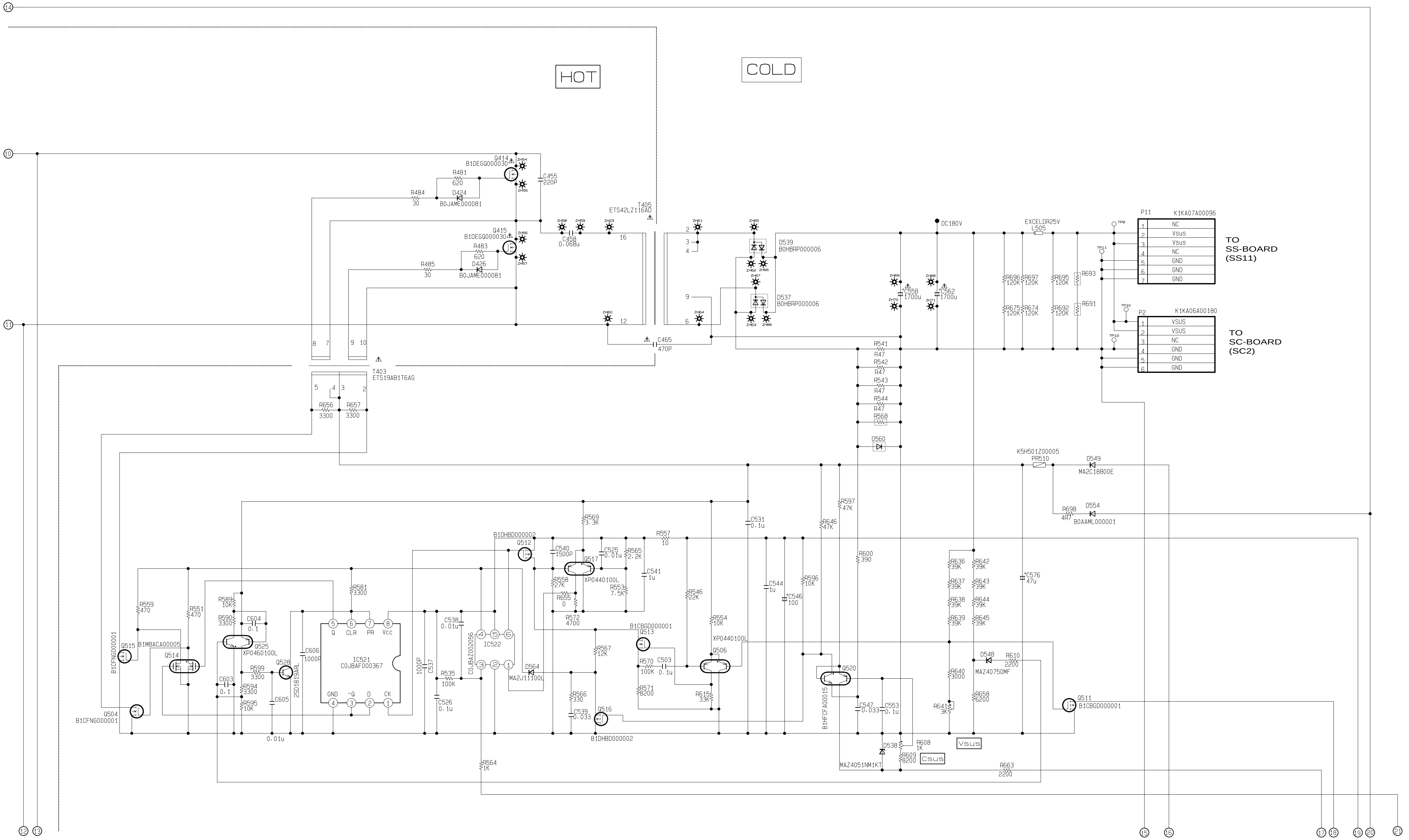
⑩
⑪
⑭

⚠ P-BOARD TNPA2889 (2/6)


HOT
COLD
T405
ETS42LZ116AD
T403
ETS19AB1T6AG
Q414
B1DEGQ000030
Q415
B1DEGQ000030
R481
620
R483
620
R484
30
R485
30
D424
B0JAME000081
D426
B0JAME000081
C455
220P
C458
0.068u
C465
470P
D539
B0HBRP000006
D537
B0HBRP000006
C558
1700u
C562
1700u
DC180V
EXCELDR25V
L505
R696
120K
R697
120K
R695
120K
R693
R675
120K
R674
120K
R692
120K
R691
P11
K1KA07A00096
NC
Vsus
Vsus
NC
GND
GND
GND
TO
SS-BOARD
(SS11)
P2
K1KA06A00180
VSUS
VSUS
NC
GND
GND
GND
TO
SC-BOARD
(SC2)
R541
R47
R542
R47
R543
R47
R544
R47
R568
D560
R656
3300
R657
3300
K5H501Z00005
PR510
D549
MA2C18800E
R698
4R7
D554
B0AAML000001
R597
47K
R646
47K
C531
0.1u
R569
3.3K
R557
10
B1DHBD000002
Q512
C540
1500P
C525
0.01u
R565
2.2K
C541
1u
Q517
XP0440100L
R558
27K
R655
0
R553
7.5K
R572
4700
R581
3300
R589
10K
R590
3300
C604
0.1
Q525
XP0460100L
R559
470
R551
470
Q515
B1CFNG000001
B1MBACA00005
Q514
Q504
B1CFNG000001
C603
0.1
R599
3300
R594
3300
R595
10K
Q528
2SD1819AHL
C605
0.01u
C606
1000P
IC521
C0JBAF000367
Q
CLR
PR
Vcc
GND
~Q
D
CK
C538
0.01u
1000P
C537
R535
100K
C526
0.1u
C0JBAZ002056
IC522
D564
MA2J11100L
R564
1K
R566
330
C539
0.033
Q516
B1DHBD000002
R567
12K
B1CBGD000001
Q513
R570
100K
C503
0.1u
R571
8200
R546
22K
R554
10K
XP0440100L
Q506
R615
33K
C544
1u
C546
100
R596
10K
R600
390
B1HFCFA00015
Q520
C547
0.033
C553
0.1u
D538
MAZ4051NM1KT
R608
1K
R609
8200
Csus
Vsus
R636
39K
R637
39K
R638
39K
R639
39K
R642
39K
R643
39K
R644
39K
R645
39K
R640
3000
R641
3K
D548
MAZ40750MF
R610
2200
R658
6200
C576
47u
Q511
B1CBGD000001
R663
2200
TP9
TP10
TP11
TP12
⑩
⑪
⑫
⑬
⑭
⑮
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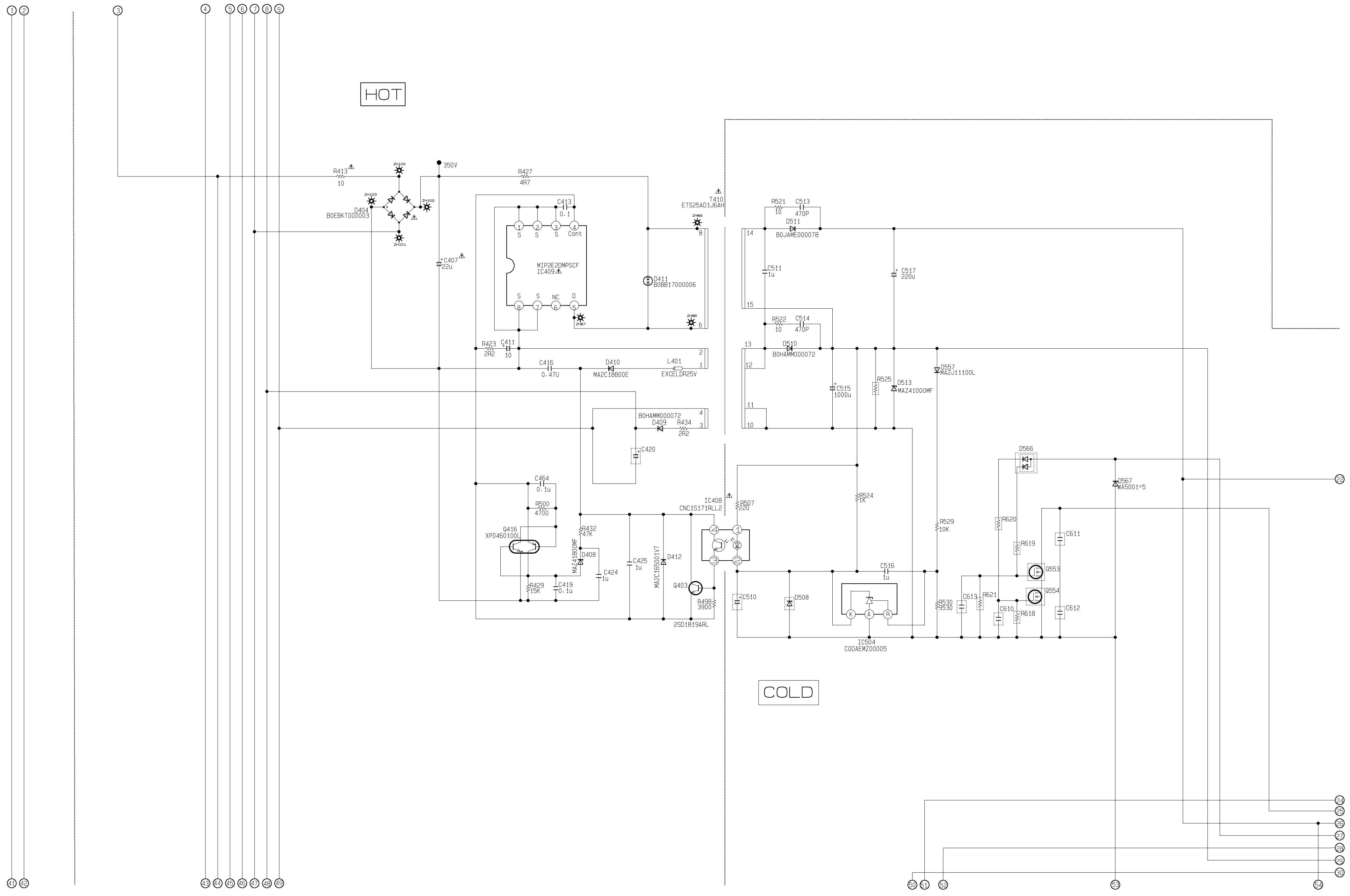
⚠ P-BOARD TNPA2889 (3/6)


A
B
C
D
E
1
2
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4
5
6
7
8
①
②
③
④
⑤
⑥
⑦
⑧
⑨
HOT
COLD
R413 ⚠
10
ZH100
ZH101
ZH102
ZH103
D404
B0EBKT000003
350V
C407 ⚠
22u
R427
4R7
C413
0.1
MIP2E2DMPSCF
IC409 ⚠
S
S
S
Cont
S
S
NC
D
ZH87
ZH88
ZH89
T410 ⚠
ETS25AD1J6AH
D411
B0BB17000006
R423
2R2
C411
10
C416
0.47U
D410
MA2C18800E
L401
EXCELDR25V
B0HAMM000072
D409
R434
2R2
C420
C464
0.1u
R500
4700
Q416
XP0460100L
R432
47K
MAZ41800MF
D408
C424
1u
R429
15K
C419
0.1u
C425
1u
MA2C165001VT
D412
IC408 ⚠
CNC1S171RLL2
Q403
R498
3900
2SD1819ARL
R507
220
C510
R521
10
C513
470P
D511
B0JAME000078
C511
1u
C517
220u
R522
10
C514
470P
D510
B0HAMM000072
C515
1000u
R525
D513
MAZ41000MF
D557
MA2J11100L
R524
1K
R529
10K
C516
1u
D508
IC504
C0DAEMZ00005
R530
9530
C613
R621
C610
R618
R620
R619
Q553
Q554
C611
C612
D566
D567
WA5001=5
㉒
㉔
㉕
㉖
㉗
㉘
㉙
㉚
㊶
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㊸
㊹
㊺
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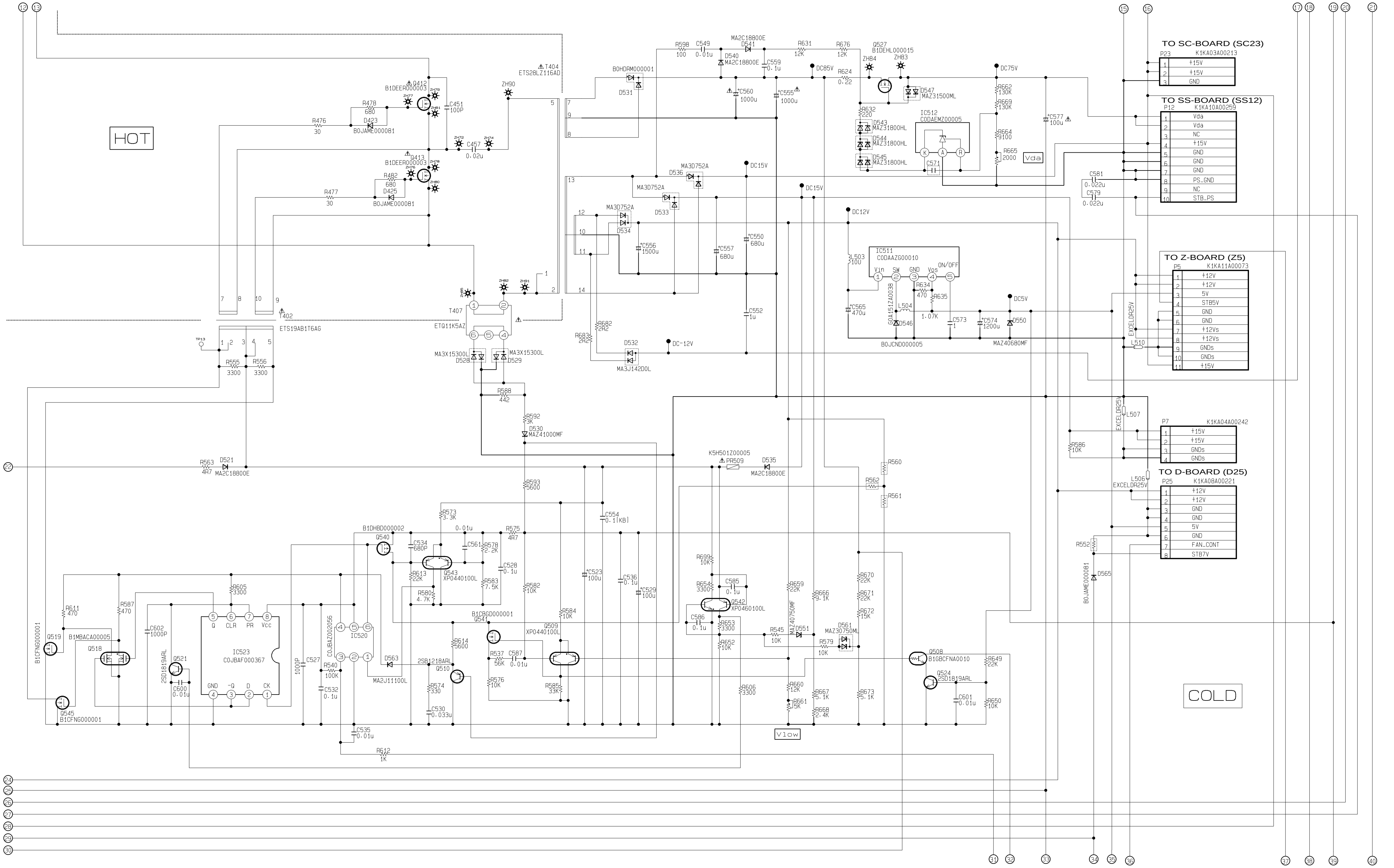
㊾
(50)
(51)
(52)
(53)
(54)

TH-42PHD6/TH-42PHW6
P-BOARD (3 of 6) Schematic Diagram

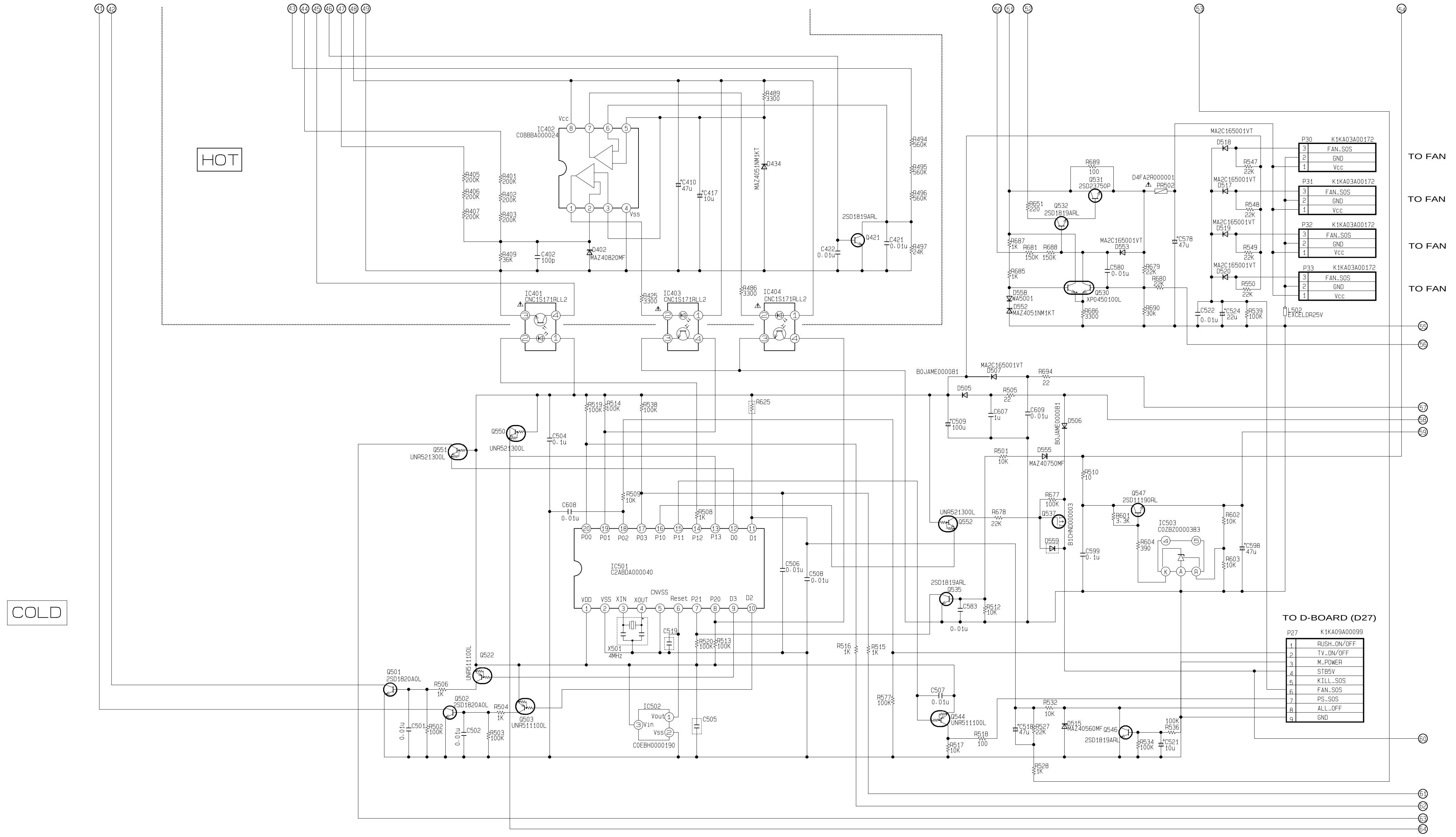
TH-42PHD6/TH-42PHW6
P-BOARD (3 of 6) and Schematic Diagram

P-BOARD TNPA2889 (4/6)


HOT
COLD
TO SC-BOARD (SC23)
P23 K1KA03A00213
1 +15V
2 +15V
3 GND
TO SS-BOARD (SS12)
P12 K1KA10A00259
1 Vda
2 Vda
3 NC
4 +15V
5 GND
6 GND
7 GND
8 PS_GND
9 NC
10 STB_PS
TO Z-BOARD (Z5)
P5 K1KA11A00073
1 +12V
2 +12V
3 5V
4 STB5V
5 GND
6 GND
7 +12Vs
8 +12Vs
9 GNDs
10 GNDs
11 +15V
P7 K1KA04A00242
1 +15V
2 +15V
3 GNDs
4 GNDs
TO D-BOARD (D25)
P25 K1KA08A00221
1 +12V
2 +12V
3 GND
4 GND
5 5V
6 GND
7 FAN_CONT
8 STB7V
T402 ETS19AB1T6AG
T404 ETS28LZ116AD
T407 ETQ11K5AZ
IC511 C0DAAZG00010
IC512 C0DAEMZ00005
IC520 C0JBAZ002056
IC523 C0JBAF000367
DC75V
DC85V
DC15V
DC12V
DC5V
DC-12V
Vda
Vlow

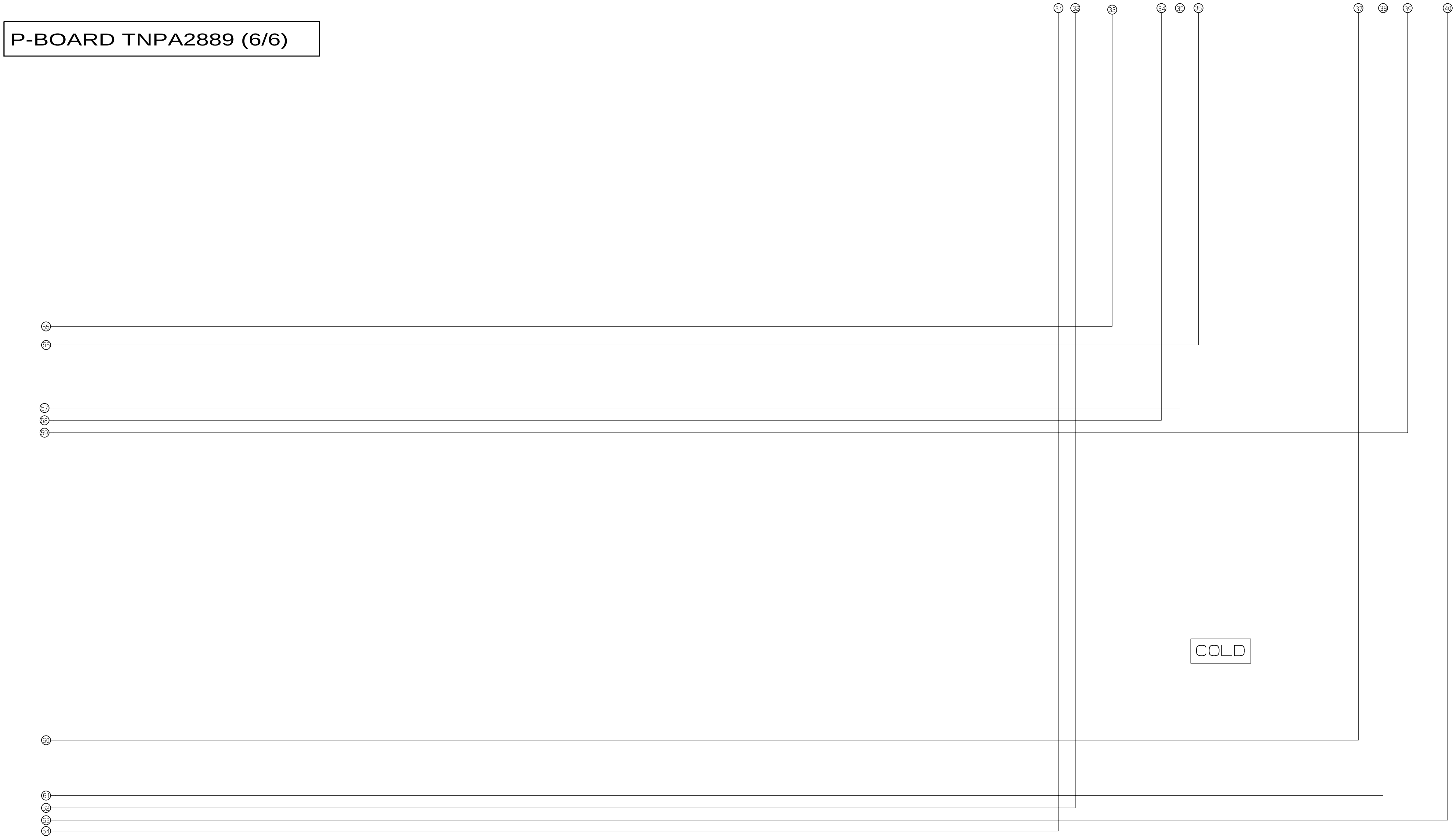
TH-42PHD6/TH-42PHW6
P-BOARD (4 of 6) Schematic Diagram

⚠ P-BOARD TNPA2889 (5/6)



HOT
COLD
IC402
C0BBBA000024
Vcc
Vss
R405 200K
R406 200K
R407 200K
R401 200K
R402 200K
R403 200K
R409 36K
C402 100p
D402 MAZ40820MF
C410 47u
C417 10u
R489 3300
MAZ4051NM1KT
D434
R494 560K
R495 560K
R496 560K
R497 24K
2SD1819ARL
Q421
C421 0.01u
C422 0.01u
IC401 CNC1S171RLL2
R425 3300
IC403 CNC1S171RLL2
R486 3300
IC404 CNC1S171RLL2
Q550
UNR521300L
Q551
UNR521300L
C504 0.1u
R519 100K
R514 100K
R538 100K
R625
R509 10K
R508 1K
C608 0.01u
IC501
C2ABDA000040
P00 P01 P02 P03 P10 P11 P12 P13 D0 D1
VDD VSS XIN XOUT CNVSS Reset P21 P20 D3 D2
X501 4MHz
C519
R520 100K
R513 100K
C506 0.01u
C508 0.01u
Q522
UNR511100L
Q501
2SD1820A0L
R506 1K
Q502
2SD1820A0L
R504 1K
Q503
UNR511100L
C501 0.01u
R502 100K
C502 0.01u
R503 100K
IC502
Vout Vin Vss
C0EBH0000190
C505
R516 1K
R515 1K
R577 100K
C507 0.01u
Q544
UNR511100L
R517 10K
R518 100
2SD1819ARL
Q535
C583 0.01u
R512 10K
UNR521300L
Q552
R678 22K
B0JAME000081
MA2C165001VT
D507
R694 22
D505
R505 22
C509 100u
C607 1u
C609 0.01u
B0JAME000081
D506
R501 10K
D555
MAZ40750MF
R510 10
R677 100K
Q537
B1CHND000003
D559
C599 0.1u
Q547
2SD1190RL
R601 3.3K
IC503
C0ZBZ0000383
R604 390
R602 10K
R603 10K
C598 47u
R532 10K
C518 47u
R527 22K
D545
MA2C560MF
Q546
2SD1819ARL
R534 100K
100K R536
C521 10u
R528 1K
R689 100
Q531
2SD2375OP
Q532
2SD1819ARL
R651 220
D4FA2R000001
PR502
R687 1K
R681 150K
R688 150K
MA2C165001VT
D553
C580 0.01u
R679 22K
R680 22K
C578 47u
R685 1K
D558
WA5001
D552
MAZ4051NM1KT
Q530
XP0450100L
R686 3300
R690 30K
MA2C165001VT
D518
R547 22K
D517
R548 22K
D519
R549 22K
D520
R550 22K
C522 0.01u
C524 22u
R539 100K
L502
EXCELDR25V
P30 K1KA03A00172
P31 K1KA03A00172
P32 K1KA03A00172
P33 K1KA03A00172
FAN_SOS
GND
Vcc
TO FAN
TO FAN
TO FAN
TO FAN
TO D-BOARD (D27)
P27 K1KA09A00099
1 RUSH_ON/OFF
2 TV_ON/OFF
3 M_POWER
4 STB5V
5 KILL_SOS
6 FAN_SOS
7 PS_SOS
8 ALL_OFF
9 GND

⚠ P-BOARD TNPA2889 (6/6)


31
32
33
34
35
36
37
38
39
40
55
56
57
58
59
COLD
60
61
62
63
64

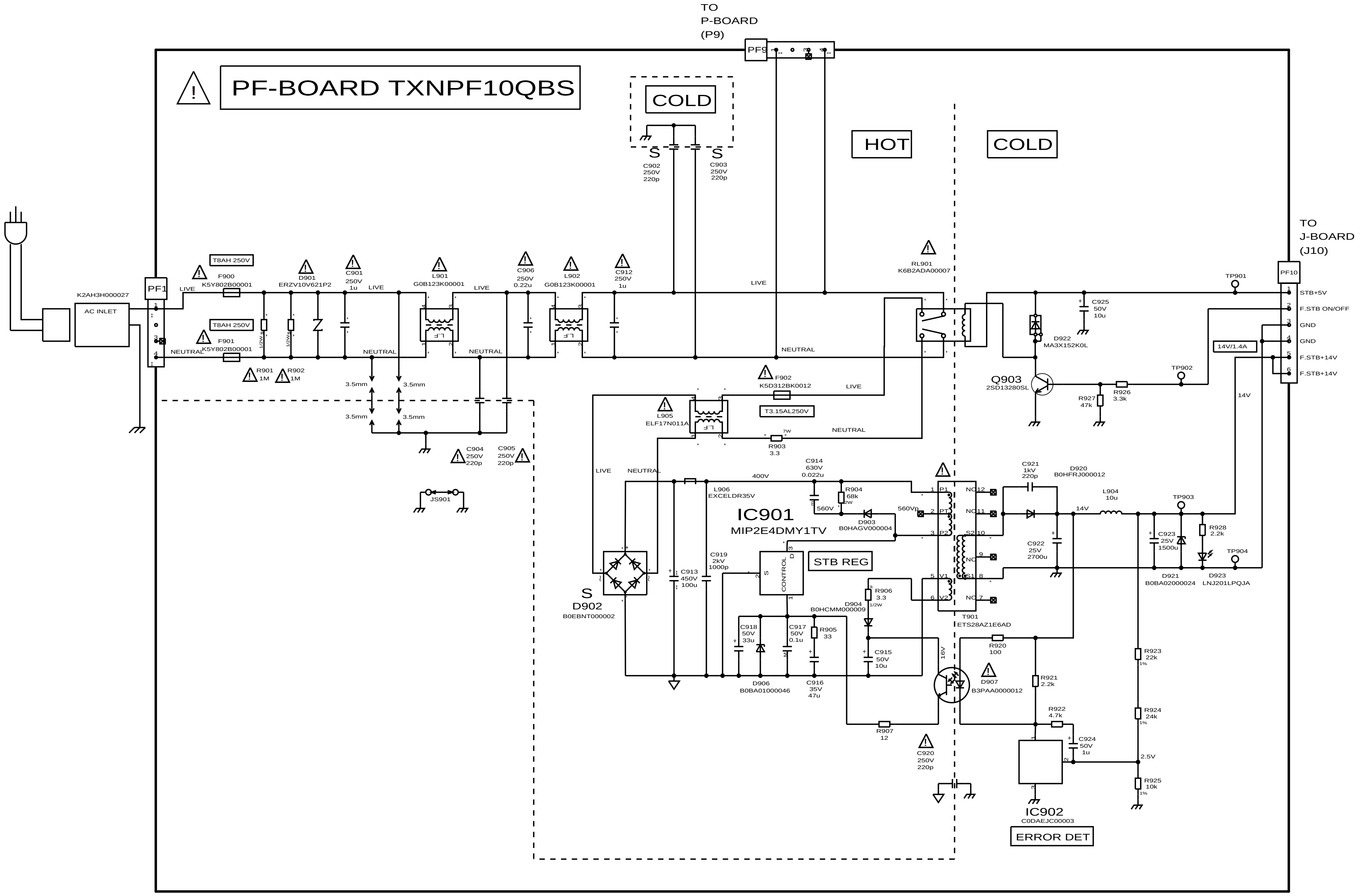
A

B

C

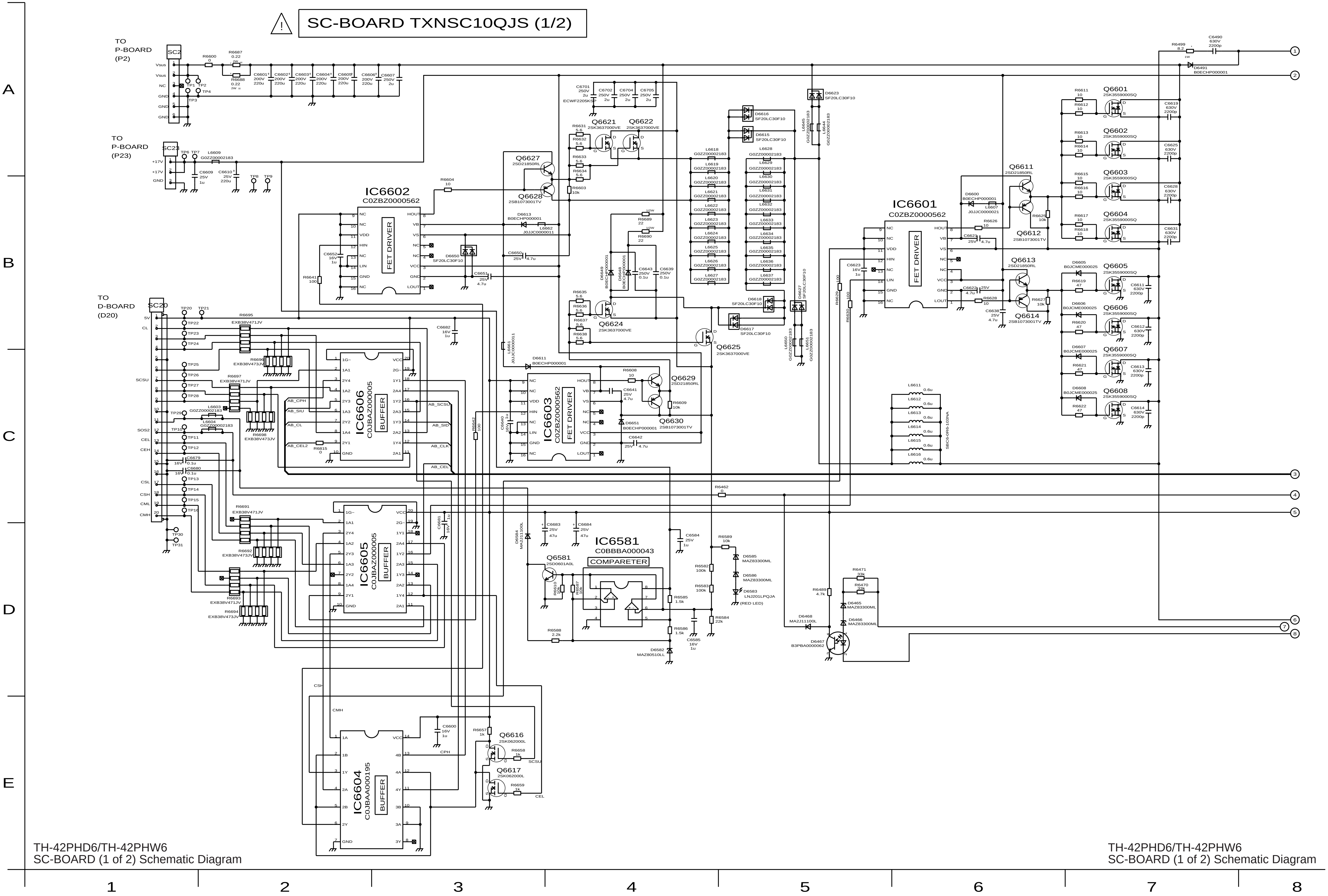
D

E


TO
P-BOARD
(P9)
PF9
PF-BOARD TXNPF10QBS
COLD
HOT
COLD
C902
250V
220p
C903
250V
220p
K2AH3H000027
AC INLET
PF1
LIVE
NEUTRAL
T8AH 250V
F900
K5Y802B00001
T8AH 250V
F901
K5Y802B00001
R901
1M
R902
1M
1/2W
D901
ERZV10V621P2
C901
250V
1u
L901
G0B123K00001
L.F
C906
250V
0.22u
L902
G0B123K00001
C912
250V
1u
3.5mm
C904
250V
220p
C905
250V
220p
JS901
F902
K5D312BK0012
T3.15AL250V
L905
ELF17N011A
R903
3.3
7W
400V
L906
EXCELDR35V
C914
630V
0.022u
R904
68k
2W
560V
560Vp
D903
B0HAGV000004
IC901
MIP2E4DMY1TV
STB REG
CONTROL
S
D902
B0EBNT000002
C913
450V
100u
C919
2kV
1000p
C918
50V
33u
D906
B0BA01000046
C917
50V
0.1u
R905
33
C916
35V
47u
D904
B0HCMM000009
R906
3.3
1/2W
C915
50V
10u
16V
R907
12
C920
250V
220p
RL901
K6B2ADA00007
T901
ETS28AZ1E6AD
P1
PT
P2
V1
V2
S2
S1
NC
D907
B3PAA0000012
R920
100
R921
2.2k
R922
4.7k
C924
50V
1u
IC902
C0DAEJC00003
ERROR DET
C921
1kV
220p
D920
B0HFRJ000012
14V
L904
10u
C922
25V
2700u
C923
25V
1500u
D921
B0BA02000024
TP903
R928
2.2k
D923
LNJ201LPQJA
TP904
R923
22k
R924
24k
R925
10k
1%
2.5V
C925
50V
10u
D922
MA3X152K0L
Q903
2SD13280SL
R927
47k
R926
3.3k
TP901
TP902
14V/1.4A
TO
J-BOARD
(J10)
PF10
STB+5V
F.STB ON/OFF
GND
GND
F.STB+14V
F.STB+14V

1 2 3 4 5 6 7 8

SC-BOARD TXNSC10QJS (1/2)

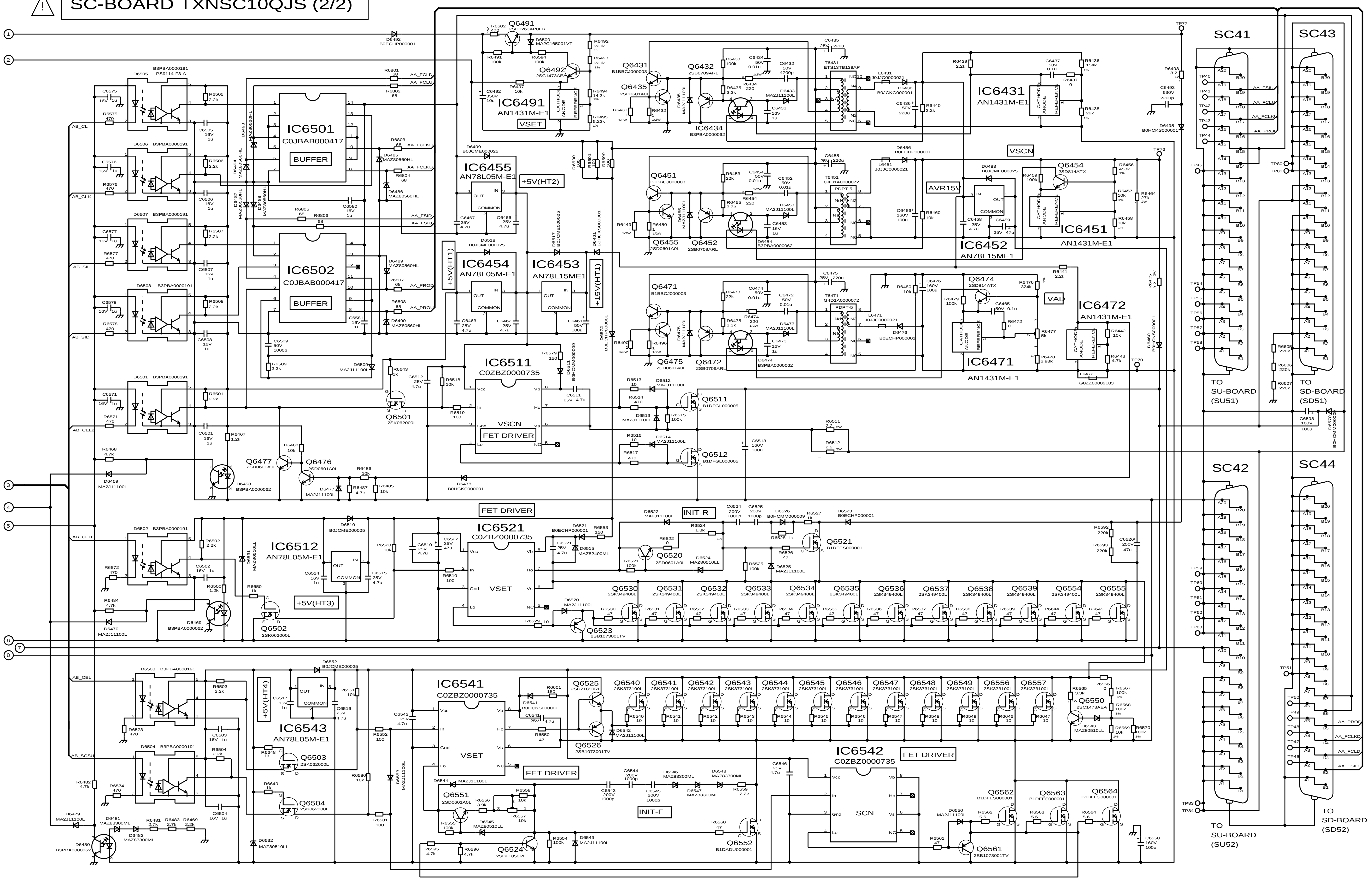


TO P-BOARD (P2)
SC2
Vsus
NC
GND
TO P-BOARD (P23)
SC23
+17V
GND
TO D-BOARD (D20)
SC20
5V
CL
SCSU
SOS2
CEL
CEH
CSL
CSH
CML
CMH
IC6602
C0ZBZ0000562
FET DRIVER
IC6601
C0ZBZ0000562
FET DRIVER
IC6603
C0ZBZ0000562
FET DRIVER
IC6606
C0JBAZ000005
BUFFER
IC6605
C0JBAZ000005
BUFFER
IC6604
C0JBAA000195
BUFFER
IC6581
C0BBBA000043
COMPARETER
Q6621 2SK3637000VE
Q6622 2SK3637000VE
Q6624 2SK3637000VE
Q6625 2SK3637000VE
Q6627 2SD2185ORL
Q6628 2SB1073001TV
Q6629 2SD2185ORL
Q6630 2SB1073001TV
Q6611 2SD2185ORL
Q6612 2SB1073001TV
Q6613 2SD2185ORL
Q6614 2SB1073001TV
Q6601 2SK3559000SQ
Q6602 2SK3559000SQ
Q6603 2SK3559000SQ
Q6604 2SK3559000SQ
Q6605 2SK3559000SQ
Q6606 2SK3559000SQ
Q6607 2SK3559000SQ
Q6608 2SK3559000SQ
Q6581 2SD0601A0L
Q6616 2SK062000L
Q6617 2SK062000L
D6623 SF20LC30F10
D6616 SF20LC30F10
D6615 SF20LC30F10
D6618 SF20LC30F10
D6617 SF20LC30F10
D6491 B0ECHP000001
D6583 LNJ201LPQJA (RED LED)
D6467 B3PBA0000062
AB_CPH
AB_SIU
AB_CL
AB_CEL2
AB_SCSU
AB_SID
AB_CLK
AB_CEL
CSH
CMH
CPH
SCSU
CEL
①
②
③
④
⑤
⑥
⑦
⑧
A
B
C
D
E
1
2
3
4
5
6
7
8

TH-42PHD6/TH-42PHW6
SC-BOARD (1 of 2) Schematic Diagram

TH-42PHD6/TH-42PHW6
SC-BOARD (1 of 2) Schematic Diagram

SC-BOARD TXNSC10QJS (2/2)


IC6501
C0JBAB000417
BUFFER
IC6502
C0JBAB000417
BUFFER
IC6491
AN1431M-E1
VSET
Q6491
Q6492
IC6455
AN78L05M-E1
+5V(HT2)
IC6454
AN78L05M-E1
IC6453
AN78L15ME1
+5V(HT1)
+15V(HT1)
Q6431
Q6432
Q6435
IC6434
T6431
IC6431
AN1431M-E1
Q6451
Q6452
Q6455
T6451
VSCN
AVR15V
IC6452
AN78L15ME1
Q6454
IC6451
AN1431M-E1
Q6471
Q6472
Q6475
T6471
Q6474
VAD
IC6471
AN1431M-E1
IC6472
AN1431M-E1
IC6511
C0ZBZ0000735
VSCN
FET DRIVER
Q6501
Q6511
Q6512
Q6477
Q6476
FET DRIVER
IC6521
C0ZBZ0000735
VSET
INIT-R
Q6520
Q6521
IC6512
AN78L05M-E1
+5V(HT3)
Q6502
Q6523
Q6530
Q6531
Q6532
Q6533
Q6534
Q6535
Q6536
Q6537
Q6538
Q6539
Q6554
Q6555
IC6541
C0ZBZ0000735
VSET
FET DRIVER
IC6543
AN78L05M-E1
+5V(HT4)
Q6503
Q6504
Q6525
Q6526
Q6540
Q6541
Q6542
Q6543
Q6544
Q6545
Q6546
Q6547
Q6548
Q6549
Q6556
Q6557
Q6550
Q6551
Q6524
Q6552
INIT-F
IC6542
C0ZBZ0000735
SCN
FET DRIVER
Q6561
Q6562
Q6563
Q6564
SC41
SC43
SC42
SC44
TO SU-BOARD (SU51)
TO SD-BOARD (SD51)
TO SU-BOARD (SU52)
TO SD-BOARD (SD52)
AB_CL
AB_CLK
AB_SIU
AB_SID
AB_CEL2
AB_CPH
AB_CEL
AB_SCSU
AA_FCLD
AA_FCLU
AA_FSID
AA_FSIU
AA_PROD
AA_PROU
AA_FCLK
AA_FCLKD
AA_FCLKU
1
2
3
4
5
6
7
8

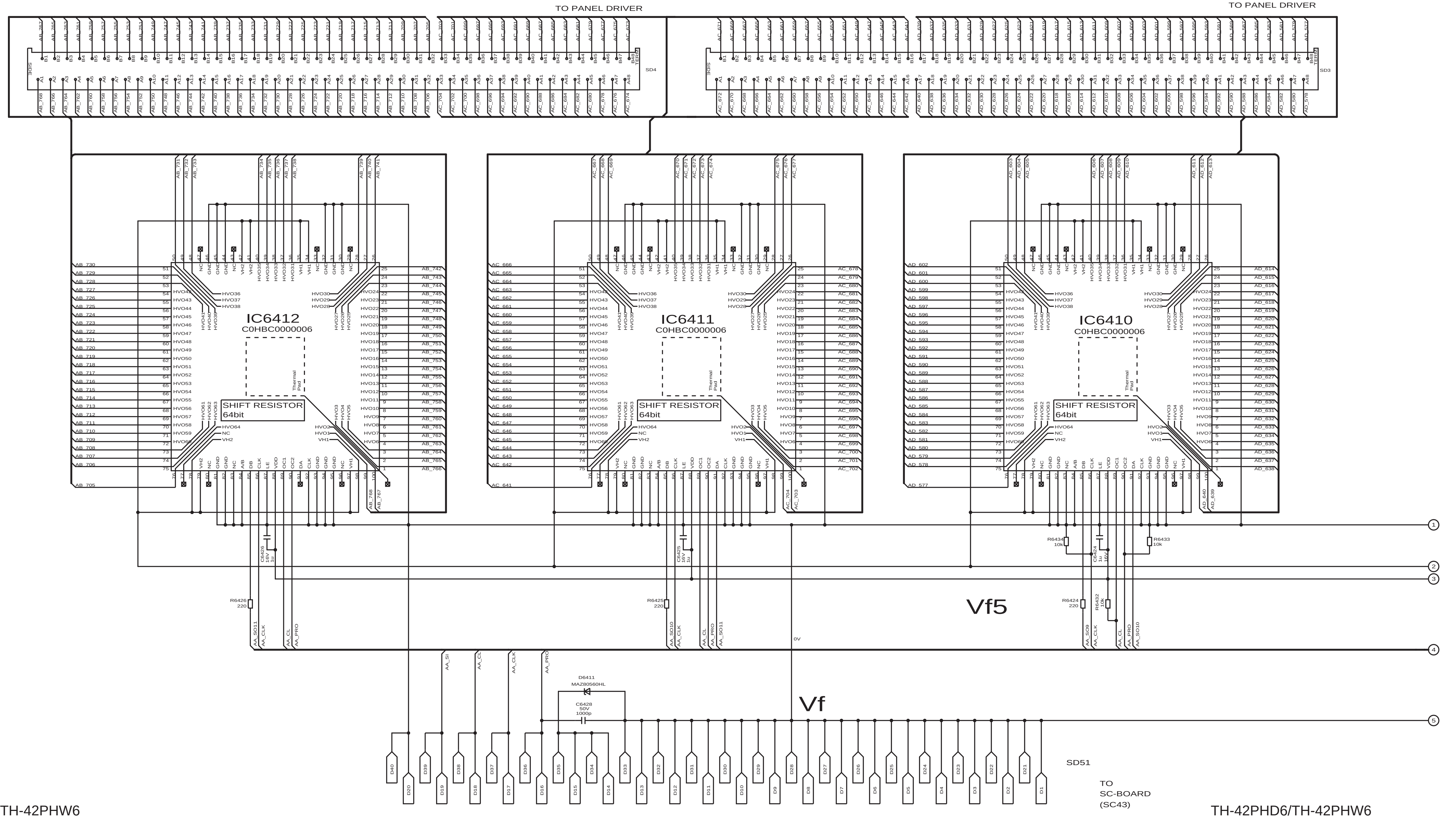
TH-42PHD6/TH-42PHW6
SC-BOARD (2 of 2) Schematic Diagram

TH-42PHD6/TH-42PHW6
SC-BOARD (2 of 2) Schematic Diagram

8 9 10 11 12 13 14 15

⚠ SD-BOARD TNPA2910 (1/2)

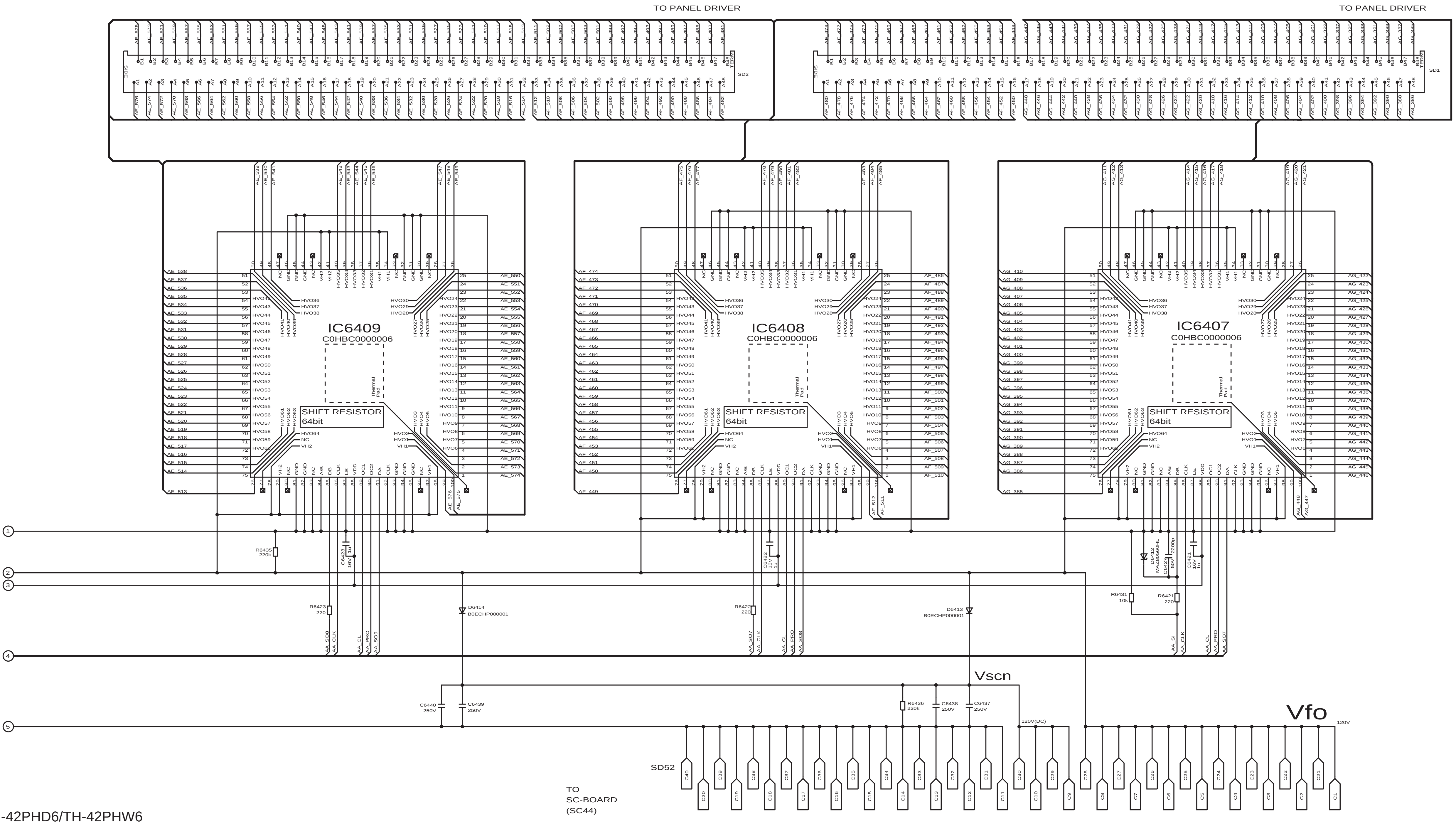
DOWN



TO PANEL DRIVER
TO PANEL DRIVER
SD4
SD3
IC6412
C0HBC0000006
IC6411
C0HBC0000006
IC6410
C0HBC0000006
SHIFT RESISTOR
64bit
Thermal Pad
C6426
C6425
C6424
R6426
220
R6425
220
R6424
220
R6434
10k
R6433
10k
R6432
10k
Vf5
Vf
0V
D6411
MAZ80560HL
C6428
50V
1000p
AA_SI
AA_CL
AA_CLK
AA_PRO
SD51
TO
SC-BOARD
(SC43)

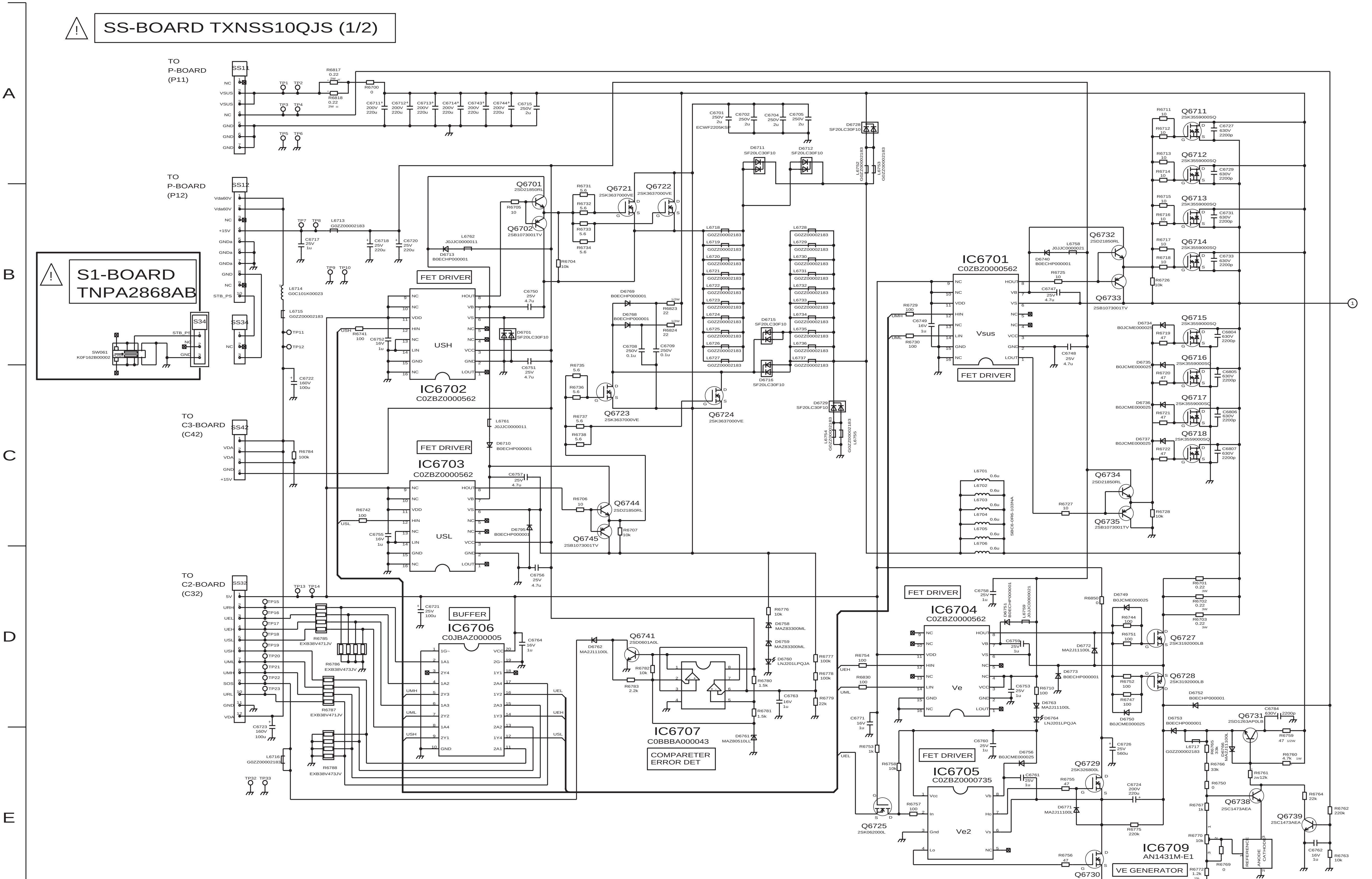
TH-42PHD6/TH-42PHW6
SD-BOARD (1 of 2) Schematic Diagram

⚠ SD-BOARD TNPA2910 (2/2)


TO PANEL DRIVER
TO PANEL DRIVER
SD2
SD1
IC6409
C0HBC0000006
IC6408
C0HBC0000006
IC6407
C0HBC0000006
SHIFT RESISTOR
64bit
Thermal Pad
R6435 220k
C6423 16V 1u
R6423 220
D6414 B0ECHP000001
C6440 250V
C6439 250V
C6422 16V 1u
R6422 220
D6413 B0ECHP000001
R6436 220k
C6438 250V
C6437 250V
D6412
C6421 16V 1u
R6431 10k
R6421 220
Vscn
Vfo
120V(DC)
120V
SD52
TO SC-BOARD (SC44)

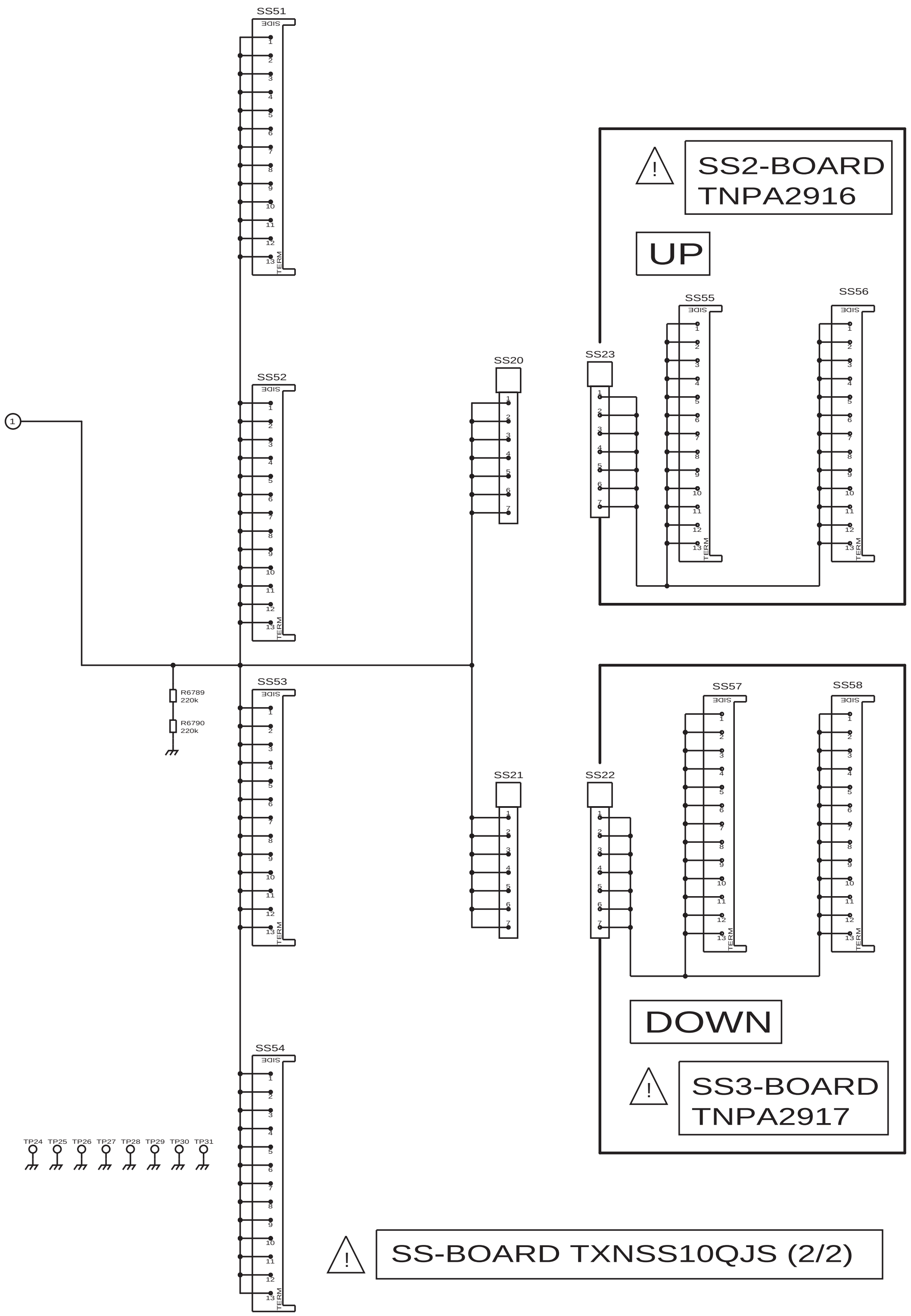
TH-42PHD6/TH-42PHW6
SD-BOARD (2 of 2) Schematic Diagram

TH-42PHD6/TH-42PHW6 SD-BOARD (2 of 2) Schematic Diagram

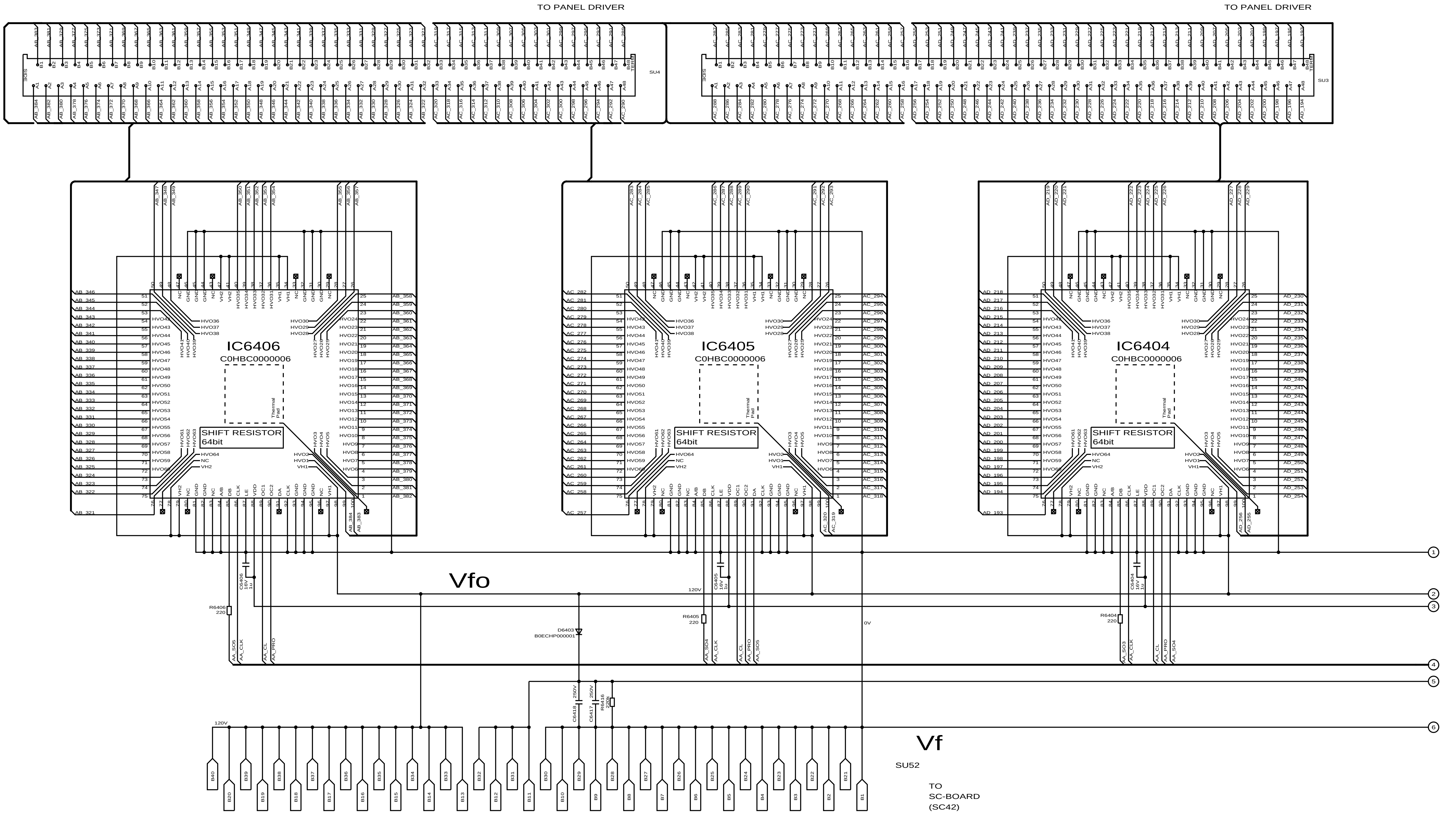

SS-BOARD TXNSS10QJS (1/2)
S1-BOARD TNPA2868AB
TO P-BOARD (P11)
SS11
TO P-BOARD (P12)
SS12
TO C3-BOARD (C42)
SS42
TO C2-BOARD (C32)
SS32
S34
SS34
SW061 K0F162B00002
FET DRIVER
IC6702 C0ZBZ0000562
USH
IC6703 C0ZBZ0000562
USL
BUFFER
IC6706 C0JBAZ000005
IC6707 C0BBBA000043
COMPARETER ERROR DET
IC6701 C0ZBZ0000562
Vsus
FET DRIVER
IC6704 C0ZBZ0000562
Ve
FET DRIVER
IC6705 C0ZBZ0000735
Ve2
IC6709 AN1431M-E1
VE GENERATOR
Q6701 2SD21850RL
Q6702 2SB1073001TV
Q6721 2SK3637000VE
Q6722 2SK3637000VE
Q6723 2SK3637000VE
Q6724 2SK3637000VE
Q6744 2SD21850RL
Q6745 2SB1073001TV
Q6741 2SD0601A0L
Q6711 2SK3559000SQ
Q6712 2SK3559000SQ
Q6713 2SK3559000SQ
Q6714 2SK3559000SQ
Q6715 2SK3559000SQ
Q6716 2SK3559000SQ
Q6717 2SK3559000SQ
Q6718 2SK3559000SQ
Q6732 2SD21850RL
Q6733 2SB1073001TV
Q6734 2SD21850RL
Q6735 2SB1073001TV
Q6727 2SK3192000LB
Q6728 2SK3192000LB
Q6729 2SK326800L
Q6730 2SK326800L
Q6725 2SK062000L
Q6731 2SD1263AP0LB
Q6738 2SC1473AEA
Q6739 2SC1473AEA
L6701 0.6u
L6702 0.6u
L6703 0.6u
L6704 0.6u
L6705 0.6u
L6706 0.6u
SBC6-0R6-103NA
D6711 SF20LC30F10
D6712 SF20LC30F10
D6715 SF20LC30F10
D6716 SF20LC30F10
D6728 SF20LC30F10
D6729 SF20LC30F10
D6701 SF20LC30F10
R6785 EXB38V471JV
R6786 EXB38V473JV
R6787 EXB38V471JV
R6788 EXB38V473JV
A
B
C
D
E
1
2
3
4
5
6
7
8

TH-42PHD6/TH-42PHW6
SS-BOARD (1 of 2) and S1-BOARD Schematic Diagram

TH-42PHD6/TH-42PHW6 SS-BOARD (1 of 2) and S1-BOARD Schematic Diagram

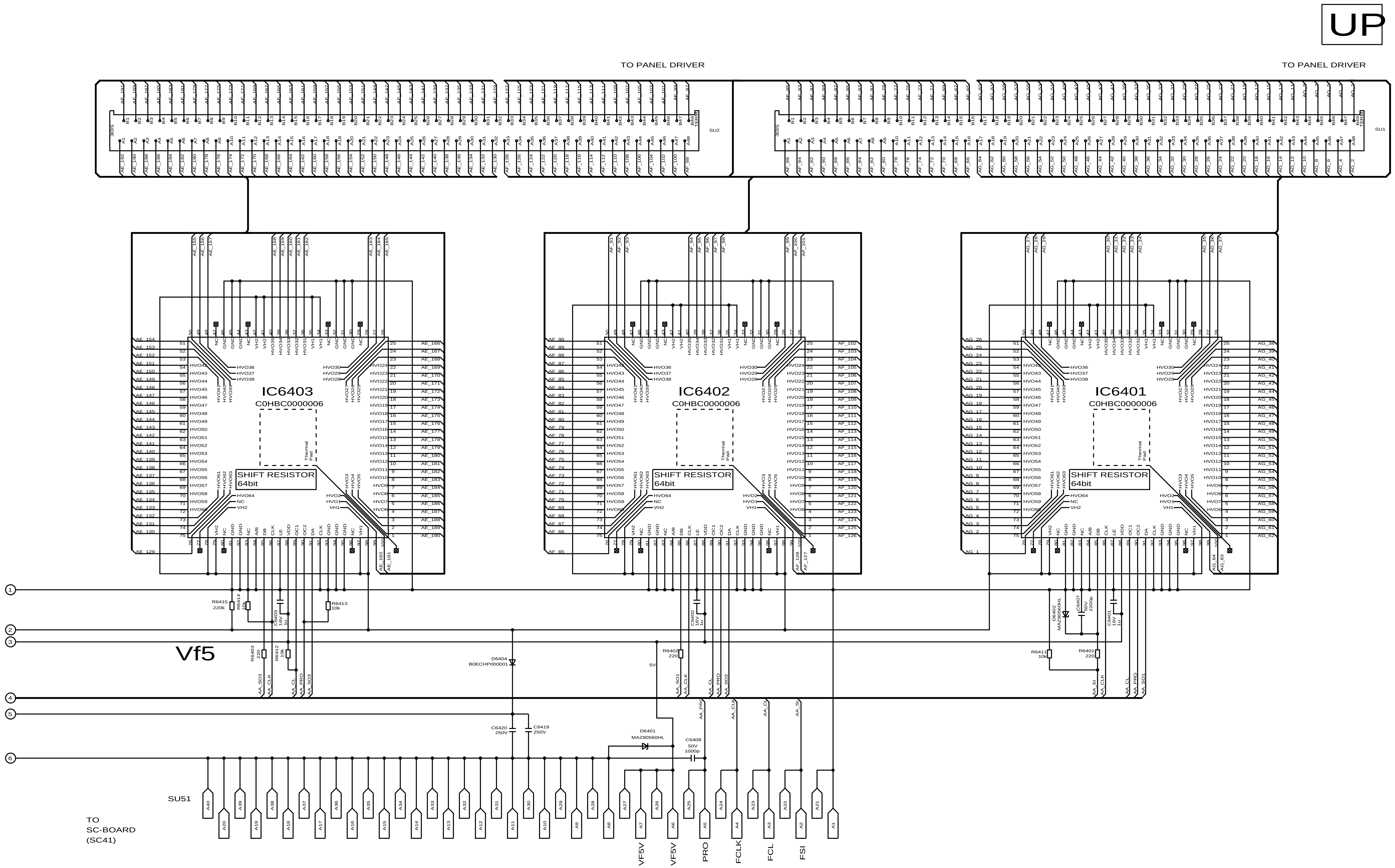

SS51
SS52
SS53
SS54
SIDE
TERM
1
R6789
220k
R6790
220k
TP24 TP25 TP26 TP27 TP28 TP29 TP30 TP31
SS20
SS21
SS22
SS23
SS2-BOARD
TNPA2916
UP
SS55
SS56
SS57
SS58
DOWN
SS3-BOARD
TNPA2917
SS-BOARD TXNSS10QJS (2/2)

SU-BOARD TNPA2909 (1/2)



TO PANEL DRIVER
TO PANEL DRIVER
SU4
SU3
IC6406
C0HBC0000006
IC6405
C0HBC0000006
IC6404
C0HBC0000006
SHIFT RESISTOR
64bit
Thermal Pad
Vfo
Vf
120V
0V
C6406 16V 1u
C6405 16V 1u
C6404 16V 1u
R6406 220
R6405 220
R6404 220
D6403
B0ECHP000001
C6418 250V
C6417 250V
R6416 220k
AA_SO5
AA_CLK
AA_CL
AA_PRO
AA_SO4
AA_SO3
SU52
TO
SC-BOARD
(SC42)

SU-BOARD TNPA2909 (2/2)



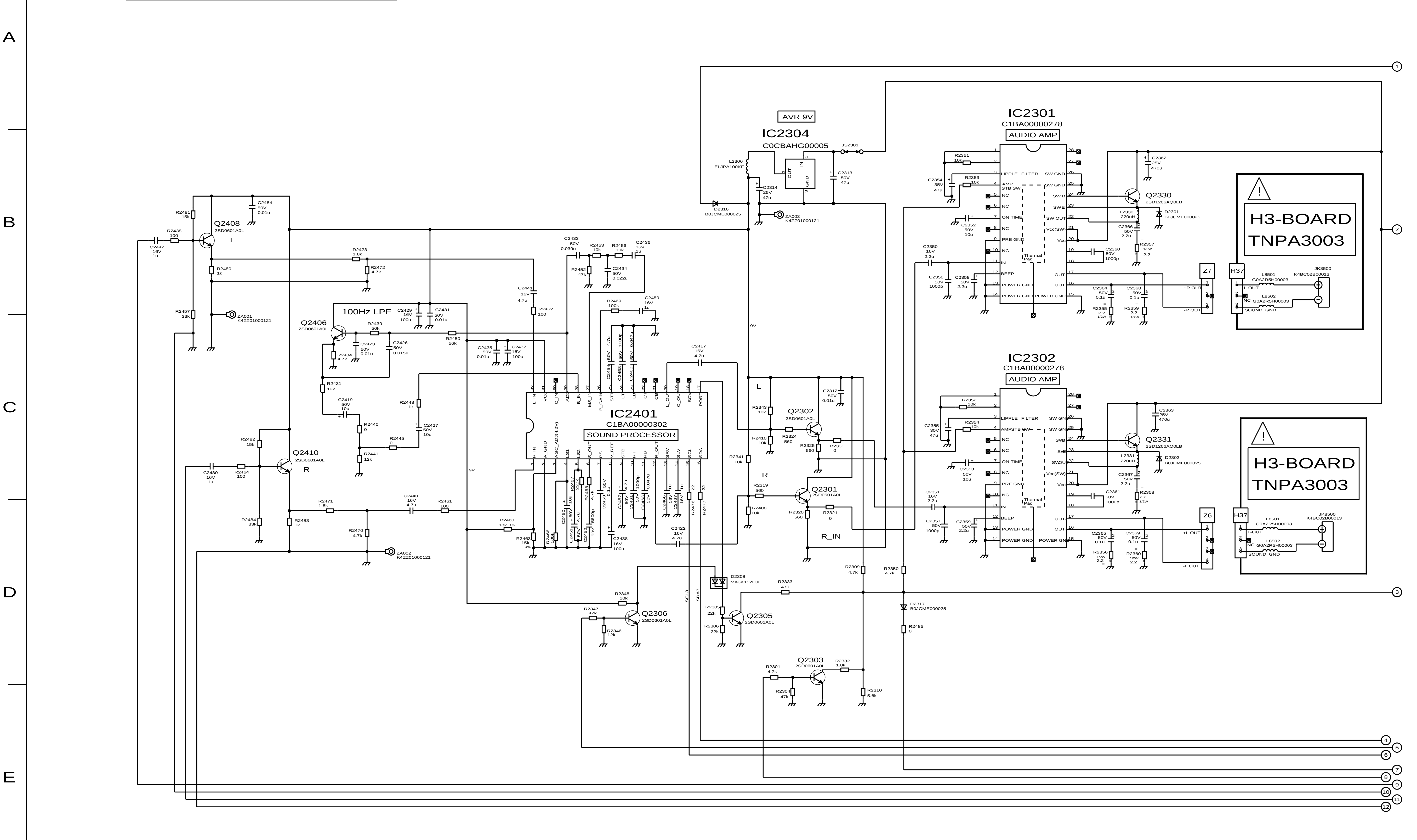
UP
TO PANEL DRIVER
TO PANEL DRIVER
SU2
SU1
IC6403
C0HBC0000006
IC6402
C0HBC0000006
IC6401
C0HBC0000006
SHIFT RESISTOR
64bit
Thermal Pad
Vf5
R6415 220k
R6414
C6403 16V 1u
R6413 10k
R6403 220
R6412 10k
D6404 B0ECHP000001
R6402 220
C6402 16V 1u
D6402 MAZ80560HL
C6407 50V 2200p
C6401 16V 1u
R6411 10k
R6401 220
C6420 250V
C6419 250V
D6401 MAZ80560HL
C6408 50V 1000p
5V
AA_SO2
AA_CLK
AA_CL
AA_PRO
AA_SO3
AA_SO1
AA_SI
SU51
TO
SC-BOARD
(SC41)
VF5V
VF5V
PRO
FCLK
FCL
FSI
①
②
③
④
⑤
⑥

TH-42PHD6/TH-42PHW6
SU-BOARD (2 of 2) Schematic Diagram

TH-42PHD6/TH-42PHW6
SU-BOARD (2 of 2) Schematic Diagram

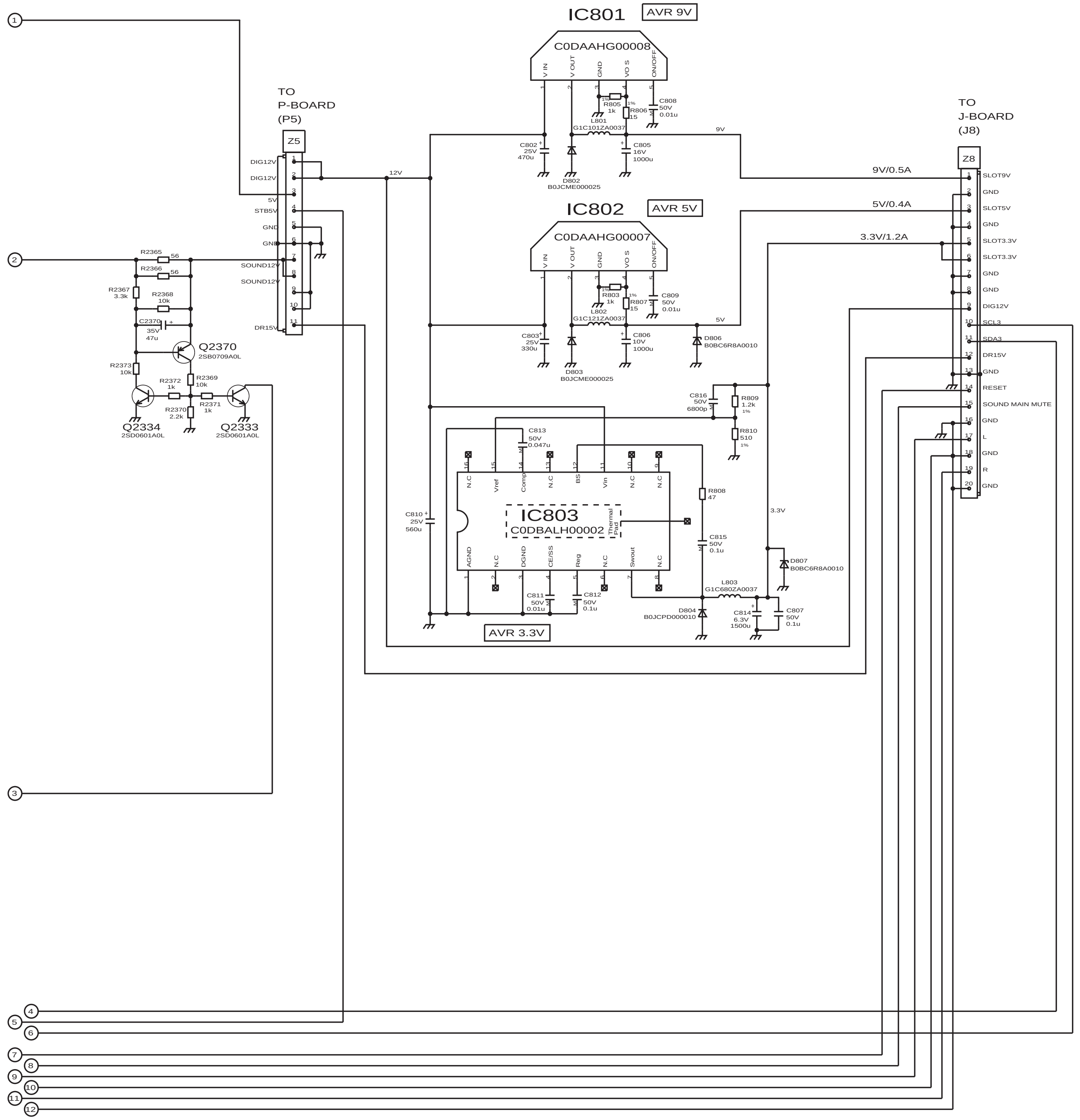
8	9	10	11	12	13	14	15

Z-BOARD TNPA2815 (1/2)


IC2401
C1BA00000302
SOUND PROCESSOR
100Hz LPF
IC2304
C0CBAHG00005
AVR 9V
IC2301
C1BA00000278
AUDIO AMP
IC2302
C1BA00000278
AUDIO AMP
Q2408
Q2406
Q2410
Q2302
Q2301
Q2306
Q2305
Q2303
Q2330
Q2331
2SD0601A0L
2SD1266AQ0LB
D2316
D2317
D2308
MA3X152E0L
D2301
D2302
B0JCME000025
ZA001
ZA002
ZA003
K4ZZ01000121
JS2301
L2306
ELJPA100KF
L2330
L2331
220uH
H3-BOARD
TNPA3003
Z7
Z6
H37
JK8500
K4BC02B00013
L8501
L8502
G0A2R5H00003
L-OUT
SOUND_GND
+R OUT
-R OUT
+L OUT
-L OUT
L
R
R_IN
9V
Thermal Pad
A
B
C
D
E
1
2
3
4
5
6
7
8
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫

TH-42PHD6/TH-42PHW6
Z-BOARD (1 of 2) and H3-BOARD Schematic Diagram

⚠ Z-BOARD TNPA2815 (2/2)



IC801
AVR 9V
C0DAAHG00008
V IN
V OUT
GND
VO S
ON/OFF
R805
1k
R806
15
C808
50V
0.01u
L801
G1C101ZA0037
9V
C802
25V
470u
D802
B0JCME000025
C805
16V
1000u
IC802
AVR 5V
C0DAAHG00007
R803
1k
R807
15
C809
50V
0.01u
L802
G1C121ZA0037
5V
C803
25V
330u
D803
B0JCME000025
C806
10V
1000u
D806
B0BC6R8A0010
TO
P-BOARD
(P5)
Z5
DIG12V
DIG12V
5V
STB5V
GND
GND
SOUND12V
SOUND12V
DR15V
12V
R2365
56
R2366
56
R2367
3.3k
R2368
10k
C2370
35V
47u
Q2370
2SB0709A0L
R2373
10k
R2372
1k
R2369
10k
R2370
2.2k
R2371
1k
Q2334
2SD0601A0L
Q2333
2SD0601A0L
TO
J-BOARD
(J8)
Z8
9V/0.5A
5V/0.4A
3.3V/1.2A
SLOT9V
GND
SLOT5V
GND
SLOT3.3V
SLOT3.3V
GND
GND
DIG12V
SCL3
SDA3
DR15V
GND
RESET
SOUND MAIN MUTE
GND
L
GND
R
GND
C816
50V
6800p
R809
1.2k
R810
510
C813
50V
0.047u
IC803
C0DBALH00002
N.C
Vref
Comp
N.C
BS
Vin
N.C
N.C
Thermal Pad
AGND
N.C
DGND
CE/SS
Reg
N.C
Swout
N.C
R808
47
C815
50V
0.1u
3.3V
D807
B0BC6R8A0010
C810
25V
560u
C811
50V
0.01u
C812
50V
0.1u
L803
G1C680ZA0037
D804
B0JCPD000010
C814
6.3V
1500u
C807
50V
0.1u
AVR 3.3V
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

14 Schematic Diagrams

14.1. Schematic Diagram Notes

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacture's specified parts.

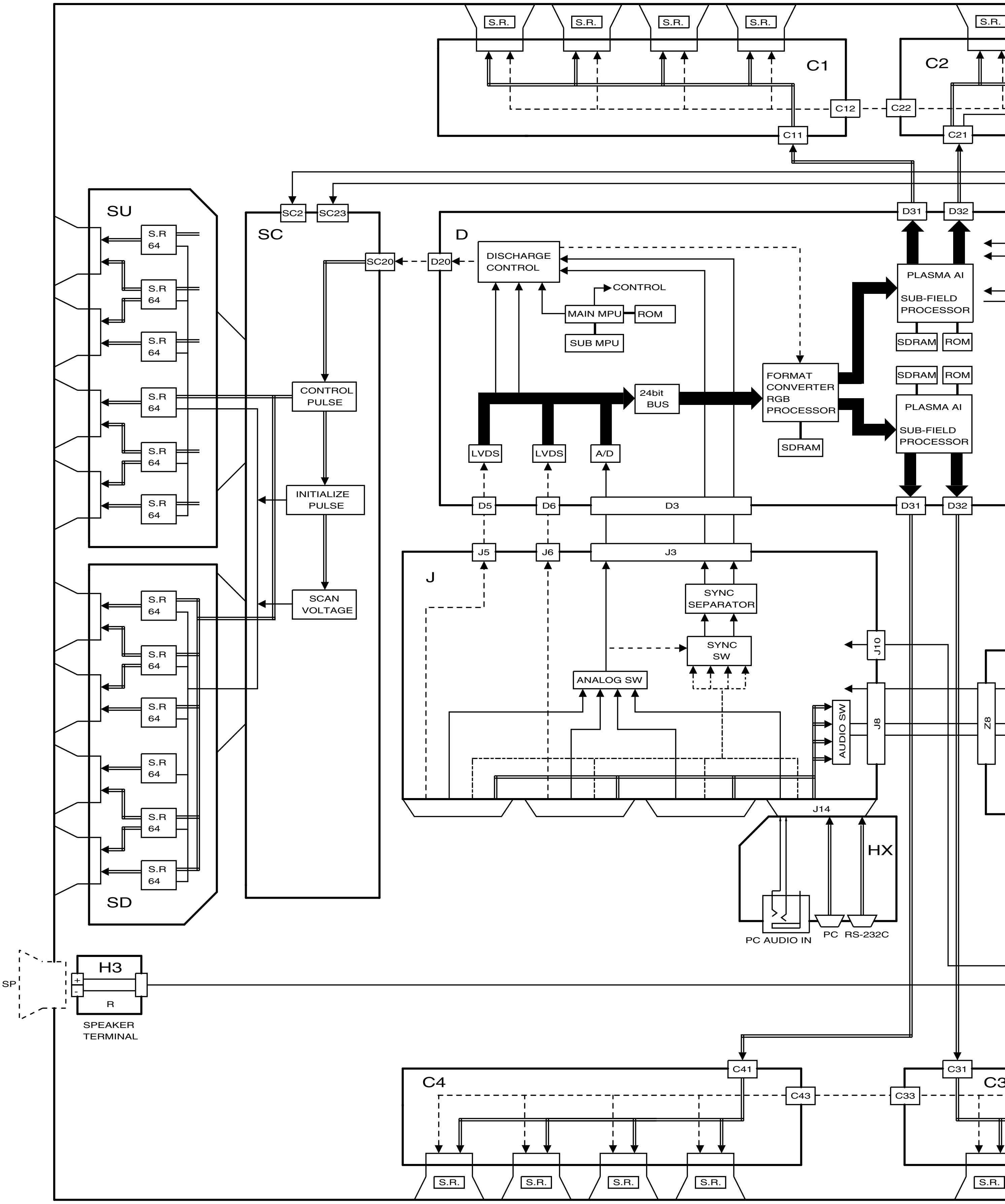
Notes:

1. **Resistor**
   All resistors are cabon 1/4W resistor, unless marked as follows:
   Unit of resistance is OHM [ ] (K=1,000, M=1,000,000).
   ○ : Nonflammable ⊠ : Metal Oxide
   △ : Solid ◎ : Metal Film
   ⧄ : Wire Wound ⊗ : Fuse**:**
2. **Capacitor**
   All capacitors are ceramic 50V capacitor, unless marked as follows:
   Unit of capacitance is F, unless otherwise noted.
   ⊗ : Temperature Compensation +⊣⊢ : Electrolytic
   Ⓜ : Polyester NP⊣⊢ : Bipolar
   ⓜ : Metalized Polyester Ⓣ : Dipped Tantalum
   ⊠ : Polypropylene Ⓩ : Z-Type
3. Coil
   Unit of inductance is F, unless otherwise noted.
4. Test Point
   ⚲ : Test Point position
5. Earth Symbol
   ⏚ : Chassis Earth (Cold) ▽ : Line Earth (Hot)
6. Voltage Measurement
   Voltage is measured by a DC voltmeter.
   Conditions of the measurement are the following:
   Power Source ....AC 120V, 50/60Hz
   (UY VERSION model)/
   AC220-240V, 50/60Hz
   (Except UY VERSION)
   Receiving Signal .... Colour Bar signal (RF)
   All customer's controls .... Maximum positions
7. Number in red circle indicates waveform nember.
   (See waveform pattern table.)
8. When arrow mark (↗) is found, connection is easily found from the direction of arrow
9. Indicates the major signal flow. : Video ➡ Audio ⇨
10. This schematic diagram is the latest at the time of printing and subject to change without notice.

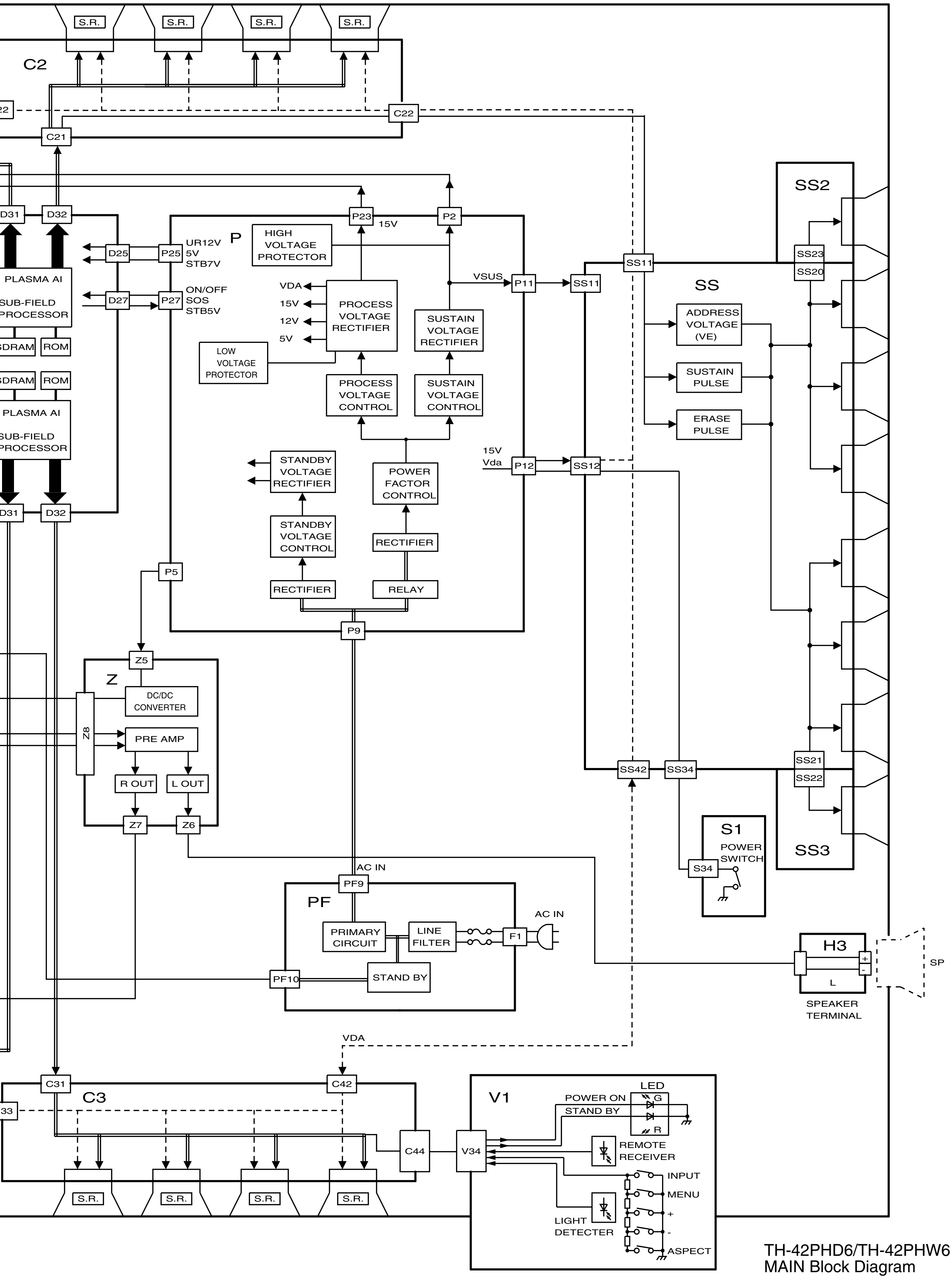
Remarks:

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
   The circuit is defined by HOT and COLD indications in the schematic diagram. Take the follwing precautions.
   All circuits, except the Power Circuit, are cold.
   Precautions
   - a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
   - b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
   - c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
     Connect the earth of instruments to the earth connection of the circuit being measured.
   - d. Make sure to disconnect the power plug before removing the chassis.
2. Following diodes are interchangeable.
   MA150- MA162 (Replacement part)

14.2. Main Block Diagram

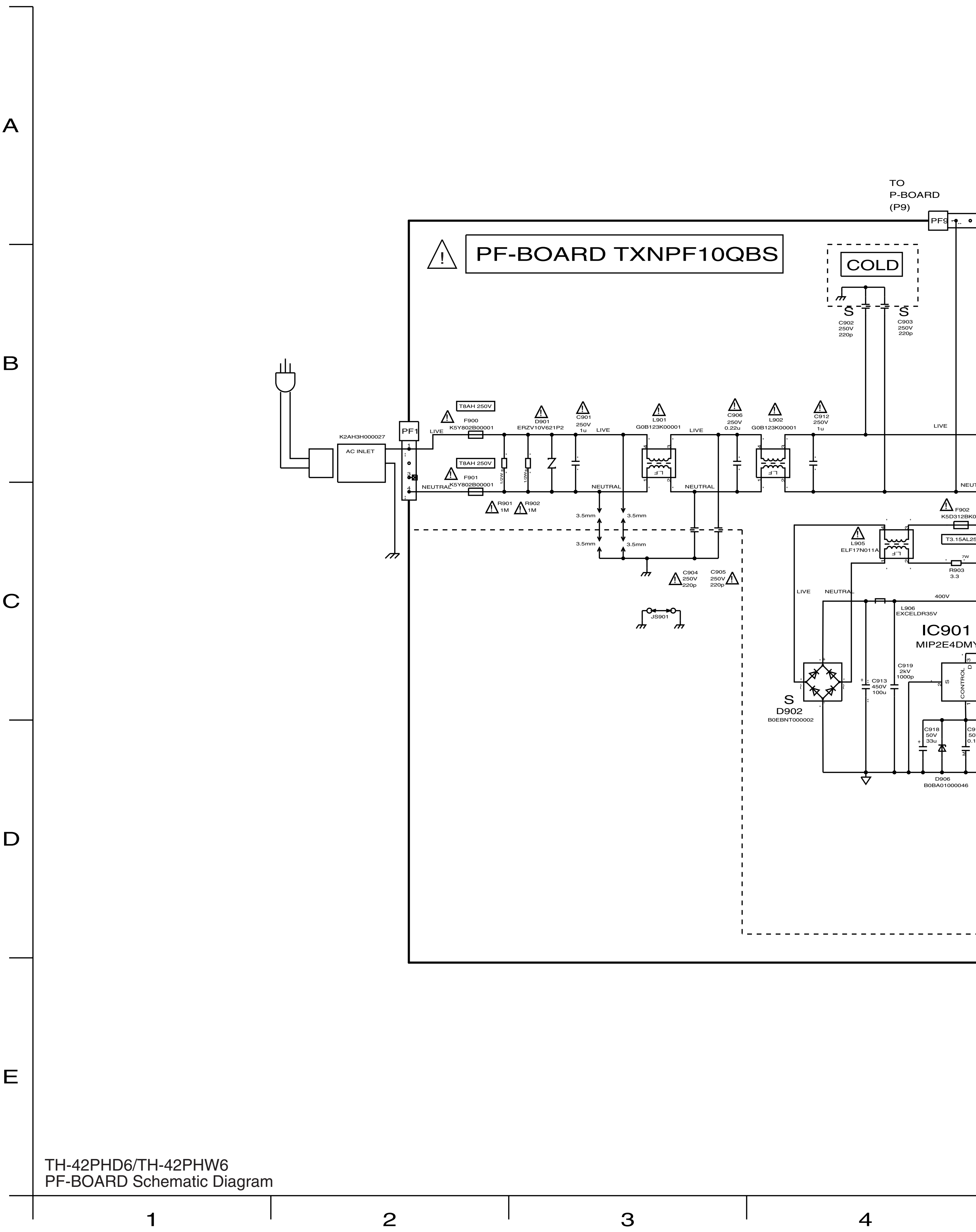

S.R.
C1
C2
C12
C22
C11
C21
SU
S.R
64
SC2
SC23
SC
D
D31
D32
SC20
D20
DISCHARGE
CONTROL
CONTROL
MAIN MPU
ROM
SUB MPU
PLASMA AI
SUB-FIELD
PROCESSOR
SDRAM
ROM
CONTROL
PULSE
24bit
BUS
FORMAT
CONVERTER
RGB
PROCESSOR
SDRAM
LVDS
A/D
INITIALIZE
PULSE
D5
D6
D3
J5
J6
J3
J
SYNC
SEPARATOR
SCAN
VOLTAGE
SYNC
SW
J10
ANALOG SW
AUDIO SW
J8
Z8
J14
HX
SD
PC AUDIO IN
PC
RS-232C
SP
H3
+
-
R
SPEAKER
TERMINAL
C41
C31
C4
C43
C33
C3

TH-42PHD6/TH-42PHW6
MAIN Block Diagram

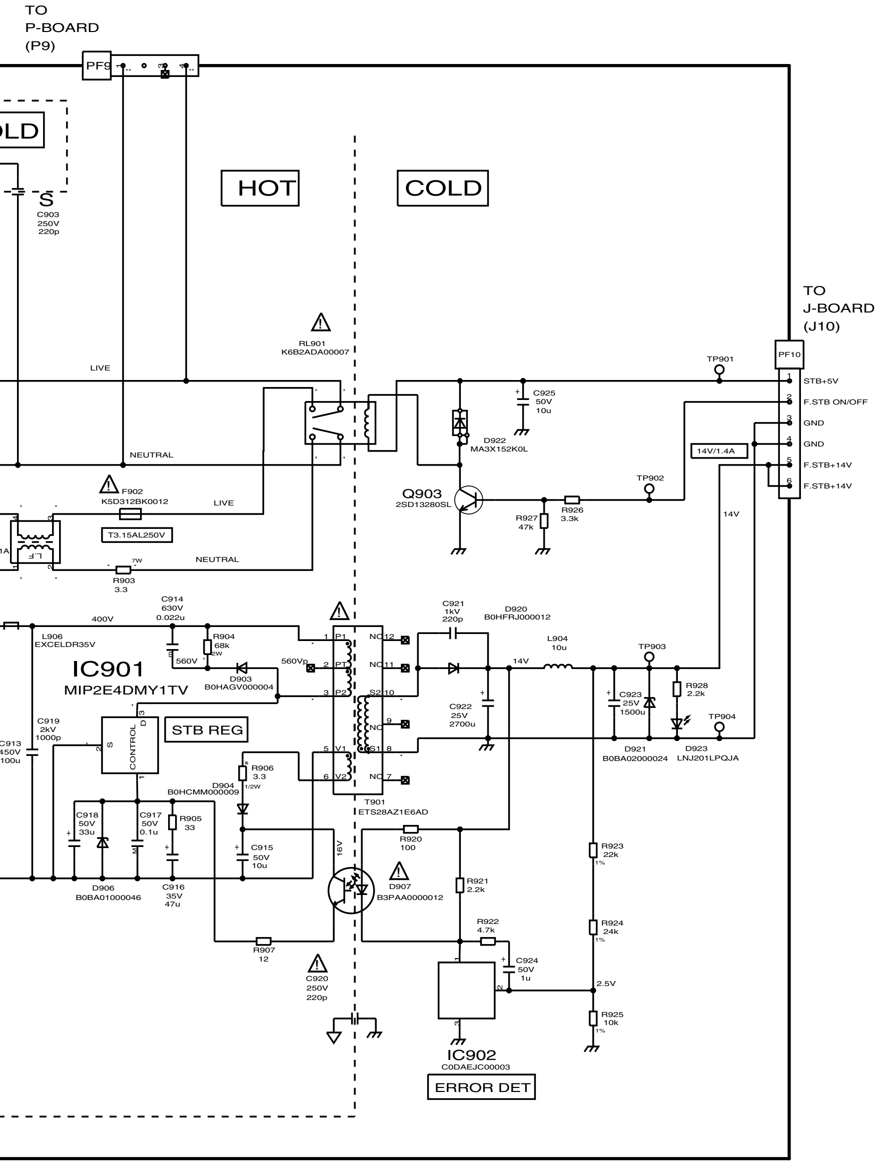

S.R.
S.R.
S.R.
S.R.
C2
22
C22
C21
D31
D32
PLASMA AI
SUB-FIELD
PROCESSOR
SDRAM
ROM
SDRAM
ROM
PLASMA AI
SUB-FIELD
PROCESSOR
D31
D32
D25
D27
P25
P27
UR12V
5V
STB7V
ON/OFF
SOS
STB5V
P
HIGH
VOLTAGE
PROTECTOR
P23
15V
P2
VDA
15V
12V
5V
PROCESS
VOLTAGE
RECTIFIER
VSUS
P11
SUSTAIN
VOLTAGE
RECTIFIER
LOW
VOLTAGE
PROTECTOR
PROCESS
VOLTAGE
CONTROL
SUSTAIN
VOLTAGE
CONTROL
15V
Vda
P12
STANDBY
VOLTAGE
RECTIFIER
POWER
FACTOR
CONTROL
STANDBY
VOLTAGE
CONTROL
RECTIFIER
P5
RECTIFIER
RELAY
P9
SS11
SS11
SS12
SS2
SS23
SS20
SS
ADDRESS
VOLTAGE
(VE)
SUSTAIN
PULSE
ERASE
PULSE
SS21
SS22
SS42
SS34
SS3
S1
POWER
SWITCH
S34
Z5
Z
DC/DC
CONVERTER
Z8
PRE AMP
R OUT
L OUT
Z7
Z6
AC IN
PF9
PF
PRIMARY
CIRCUIT
LINE
FILTER
F1
AC IN
STAND BY
PF10
H3
+
-
L
SP
SPEAKER
TERMINAL
VDA
C31
C3
C42
33
C44
V34
V1
LED
POWER ON
STAND BY
G
R
REMOTE
RECEIVER
INPUT
MENU
+
-
LIGHT
DETECTER
ASPECT
S.R.
S.R.
S.R.
S.R.

TH-42PHD6/TH-42PHW6
MAIN Block Diagram

14.3. PF-Board Schematic Diagram

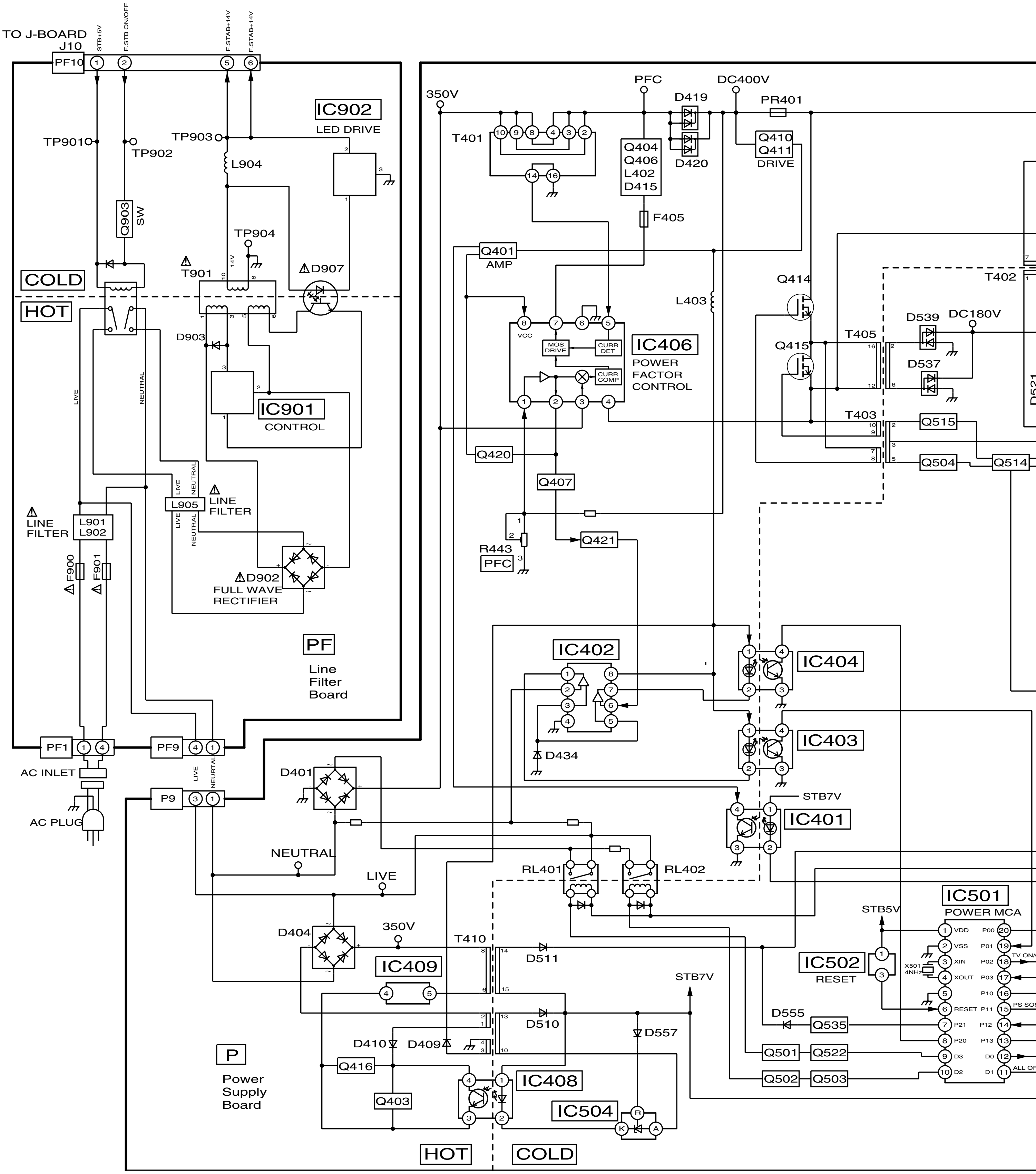

A
B
C
D
E
1
2
3
4
TO
P-BOARD
(P9)
PF9
PF-BOARD TXNPF10QBS
COLD
S
C902
250V
220p
S
C903
250V
220p
K2AH3H000027
AC INLET
PF1
LIVE
NEUTRAL
T8AH 250V
F900
K5Y802B00001
T8AH 250V
F901
K5Y802B00001
R901
1M
R902
1M
1/2W
1/2W
D901
ERZV10V621P2
C901
250V
1u
LIVE
L901
G0B123K00001
L.F
NEUTRAL
LIVE
NEUTRAL
C906
250V
0.22u
L902
G0B123K00001
L.F
C912
250V
1u
LIVE
NEUT
3.5mm
3.5mm
3.5mm
3.5mm
C904
250V
220p
C905
250V
220p
JS901
F902
K5D312BK0
T3.15AL25
L905
ELF17N011A
L.F
7W
R903
3.3
LIVE
NEUTRAL
400V
L906
EXCELDR35V
IC901
MIP2E4DMY
S
D902
B0EBNT000002
C913
450V
100u
C919
2kV
1000p
S
CONTROL
D
C918
50V
33u
C9
50
0.1
D906
B0BA01000046

TH-42PHD6/TH-42PHW6
PF-BOARD Schematic Diagram

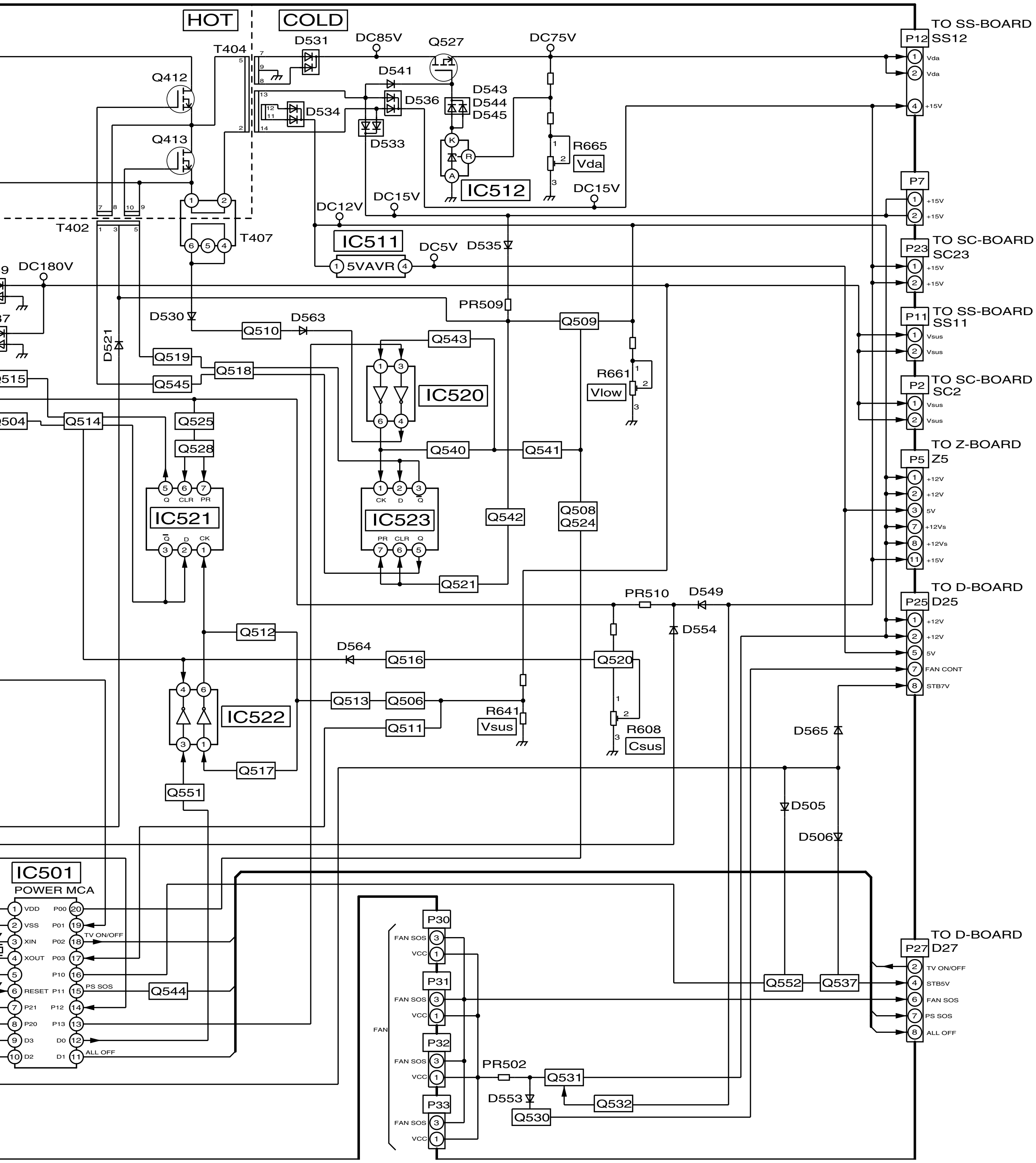

TO
P-BOARD
(P9)
PF9
LD
S
C903
250V
220p
HOT
COLD
TO
J-BOARD
(J10)
RL901
K6B2ADA00007
LIVE
NEUTRAL
F902
K5D312BK0012
T3.15AL250V
LIVE
NEUTRAL
7W
R903
3.3
C925
50V
10u
D922
MA3X152K0L
Q903
2SD13280SL
R927
47k
R926
3.3k
TP901
TP902
PF10
STB+5V
F.STB ON/OFF
GND
GND
F.STB+14V
F.STB+14V
14V/1.4A
14V
C914
630V
0.022u
400V
L906
EXCELDR35V
R904
68k
2W
560V
D903
B0HAGV000004
560Vp
IC901
MIP2E4DMY1TV
STB REG
CONTROL
C919
2kV
1000p
C913
450V
100u
C918
50V
33u
C917
50V
0.1u
R905
33
R906
3.3
1/2W
D904
B0HCMM000009
C915
50V
10u
D906
B0BA01000046
C916
35V
47u
R907
12
C920
250V
220p
T901
ETS28AZ1E6AD
C921
1kV
220p
D920
B0HFRJ000012
L904
10u
14V
TP903
C922
25V
2700u
C923
25V
1500u
R928
2.2k
TP904
D921
B0BA02000024
D923
LNJ201LPQJA
16V
R920
100
D907
B3PAA0000012
R921
2.2k
R922
4.7k
C924
50V
1u
R923
22k
1%
R924
24k
1%
2.5V
R925
10k
1%
IC902
C0DAEJC00003
ERROR DET

TH-42PHD6/TH-42PHW6
PF-BOARD Schematic Diagram

14.4. Power Block Diagram

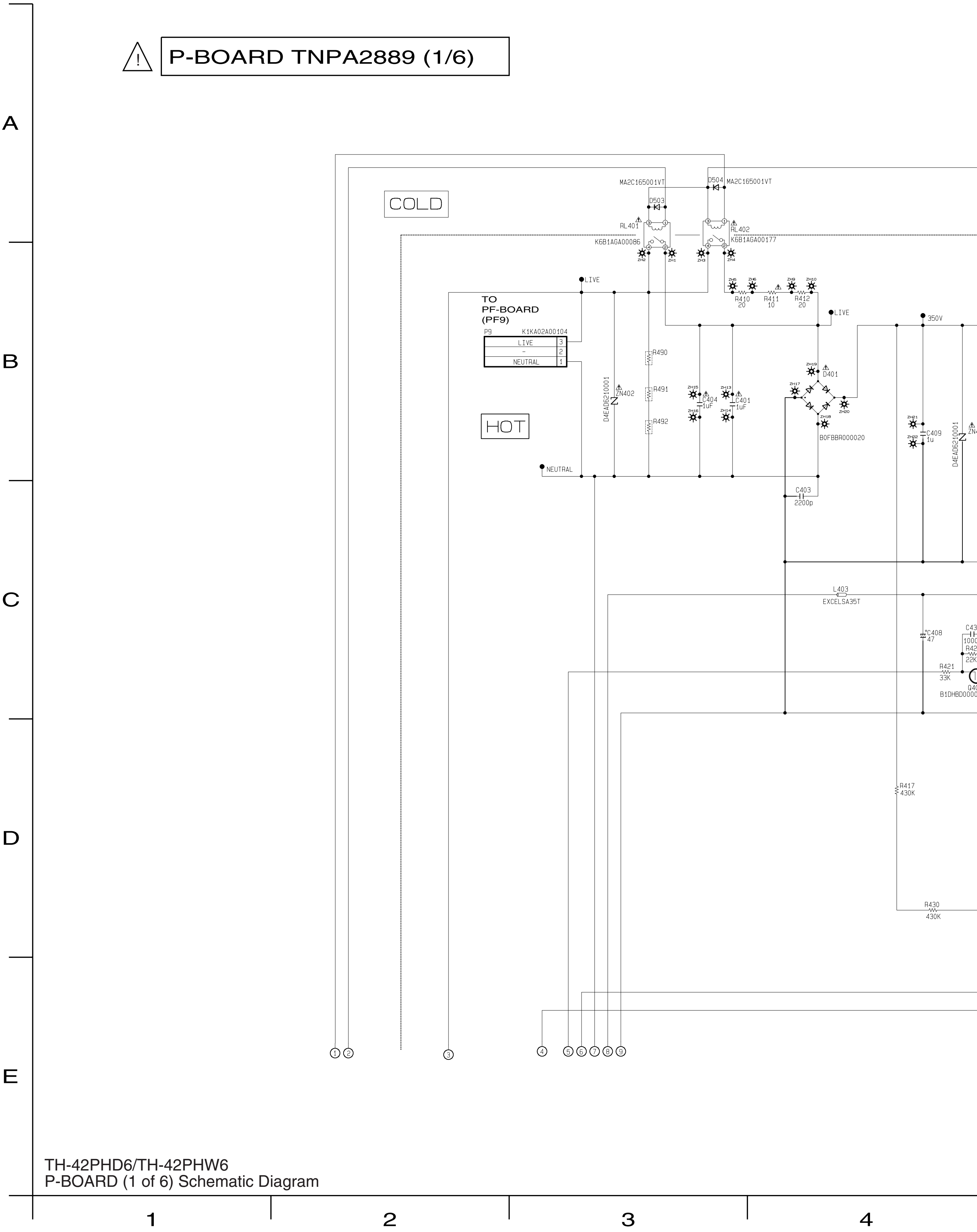

TO J-BOARD
J10
PF10
STB+5V
F.STB ON/OFF
F.STAB+14V
F.STAB+14V
TP901
TP902
TP903
TP904
Q903
SW
L904
IC902
LED DRIVE
COLD
HOT
T901
14V
D907
D903
IC901
CONTROL
LIVE
NEUTRAL
L905
LINE FILTER
LINE FILTER
L901
L902
F900
F901
D902
FULL WAVE RECTIFIER
PF
Line Filter Board
PF1
PF9
AC INLET
AC PLUG
P9
350V
PFC
DC400V
D419
PR401
T401
D420
Q404
Q406
L402
D415
Q410
Q411
DRIVE
F405
Q401
AMP
L403
IC406
POWER FACTOR CONTROL
VCC
MOS DRIVE
CURR DET
CURR COMP
Q420
Q407
R443
PFC
Q421
Q414
Q415
T402
T405
D539
DC180V
D537
D521
T403
Q515
Q504
Q514
IC402
D434
IC404
IC403
IC401
STB7V
D401
NEUTRAL
LIVE
RL401
RL402
D404
350V
IC409
T410
D511
D510
D410
D409
Q416
Q403
IC408
IC504
D557
STB7V
STB5V
IC501
POWER MCA
IC502
RESET
D555
Q535
Q501
Q522
Q502
Q503
X501 4NHz
VDD
VSS
XIN
XOUT
RESET
P21
P20
D3
D2
P00
P01
P02
P03
P10
P11
P12
P13
D0
D1
TV ON/
PS SOS
ALL OF
P
Power Supply Board
HOT
COLD

TH-42PHD6/TH-42PHW6
POWER Block Diagram

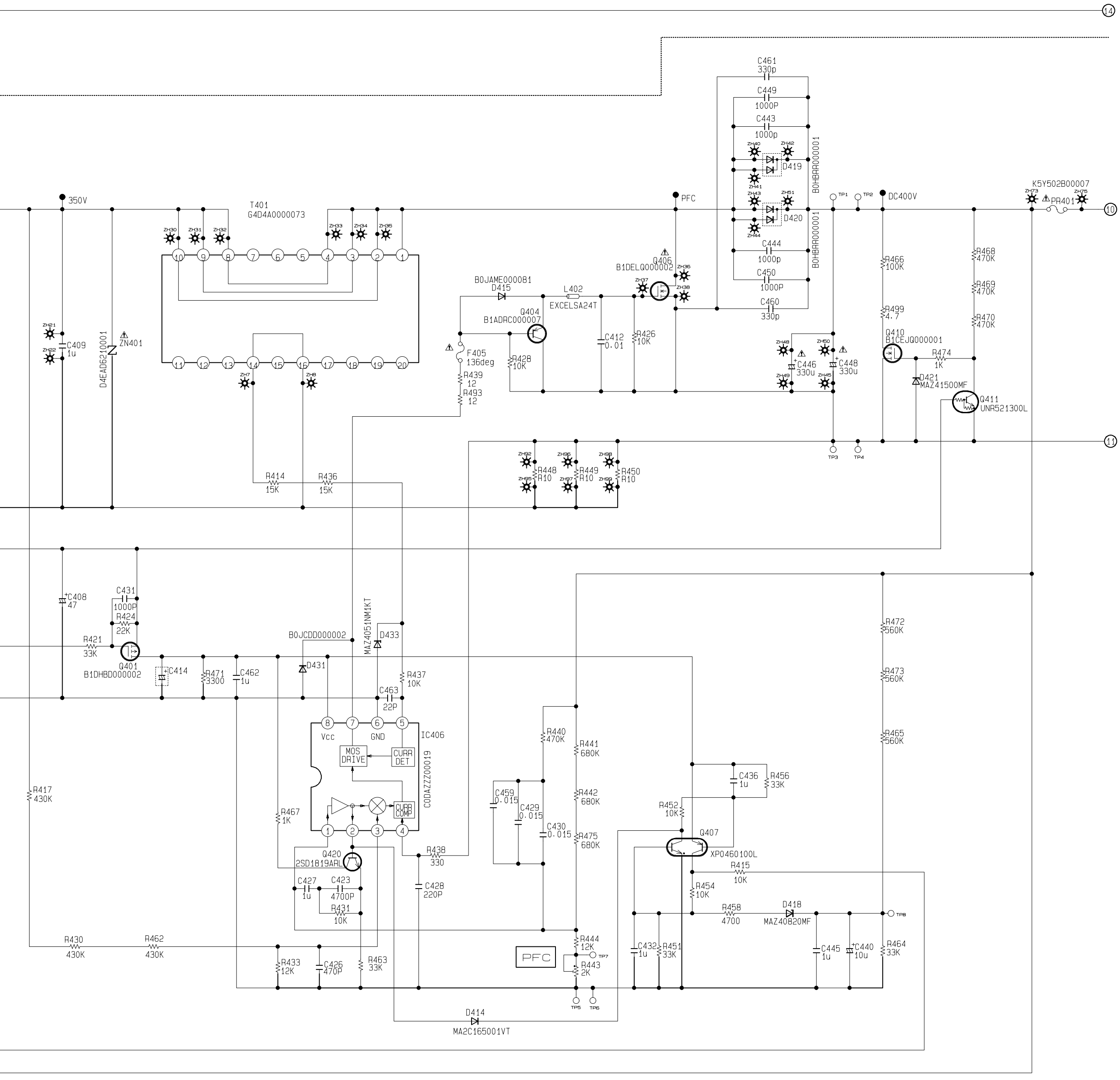

HOT
COLD
T404
D531
DC85V
Q527
DC75V
Q412
D541
D543
D544
D545
D536
D534
D533
Q413
R665
Vda
IC512
DC15V
DC12V
T402
T407
IC511
5VAVR
DC5V
D535
DC180V
PR509
Q509
D530
Q510
D563
D521
Q543
Q519
Q518
IC520
R661
Vlow
Q545
Q514
Q525
Q528
Q540
Q541
IC521
IC523
Q542
Q508
Q524
Q521
PR510
D549
D554
Q512
D564
Q516
Q520
IC522
Q513
Q506
R641
Vsus
Q511
R608
Csus
Q517
Q551
D565
D505
D506
IC501
POWER MCA
VDD
VSS
XIN
XOUT
RESET
P21
P20
D3
D2
P00
P01
P02
P03
P10
P11
P12
P13
D0
D1
TV ON/OFF
PS SOS
ALL OFF
Q544
P30
P31
P32
P33
FAN SOS
VCC
FAN
PR502
Q531
D553
Q532
Q530
Q552
Q537
TO SS-BOARD
P12 SS12
Vda
+15V
P7
TO SC-BOARD
P23 SC23
TO SS-BOARD
P11 SS11
Vsus
TO SC-BOARD
P2 SC2
TO Z-BOARD
P5 Z5
+12V
5V
+12Vs
TO D-BOARD
P25 D25
FAN CONT
STB7V
TO D-BOARD
P27 D27
TV ON/OFF
STB5V
FAN SOS
PS SOS
ALL OFF

TH-42PHD6/TH-42PHW6
POWER Block Diagram

14.5. P-Board (1 of 6) Schematic Diagram


P-BOARD TNPA2889 (1/6)
COLD
HOT
TO
PF-BOARD
(PF9)
P9
K1KA02A00104
LIVE
-
NEUTRAL
1
2
3
LIVE
NEUTRAL
MA2C165001VT
D503
D504
MA2C165001VT
RL401
K6B1AGA00086
RL402
K6B1AGA00177
ZH1
ZH2
ZH3
ZH4
ZH5
ZH6
ZH9
ZH10
R410
20
R411
10
R412
20
LIVE
350V
R490
R491
R492
D4EAD6210001
ZN402
ZH15
ZH16
C404
1uF
ZH13
ZH14
C401
1uF
ZH17
ZH18
ZH19
ZH20
D401
B0FBBR000020
C403
2200p
ZH21
ZH22
C409
1u
D4EAD6210001
L403
EXCELSA35T
C408
47
R421
33K
R417
430K
R430
430K
①
②
③
④
⑤
⑥
⑦
⑧
⑨
A
B
C
D
E
1
2
3
4

TH-42PHD6/TH-42PHW6
P-BOARD (1 of 6) Schematic Diagram



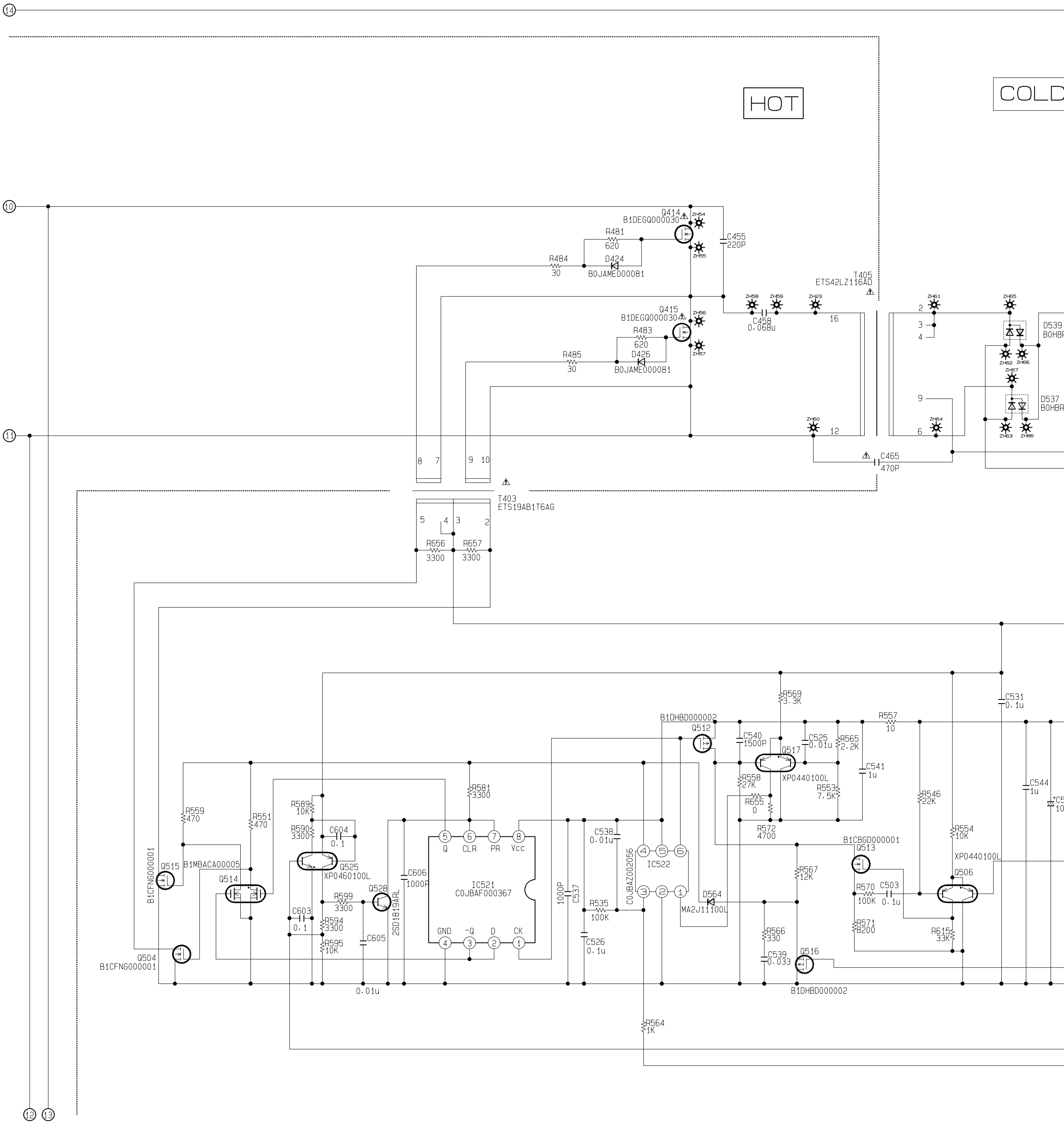
14
10
11
350V
T401
G4D4A0000073
ZH30 ZH31 ZH32 ZH33 ZH34 ZH35
10 9 8 7 6 5 4 3 2 1
11 12 13 14 15 16 17 18 19 20
ZH7 ZH8
ZH21 ZH22
C409
1u
D4EAD6210001
ZN401
PFC
C461
330p
C449
1000P
C443
1000p
ZH40 ZH42 ZH41
D419
ZH43 ZH51 ZH44
D420
B0HBRR000001
B0HBRR000001
C444
1000p
C450
1000P
C460
330p
TP1 TP2
DC400V
K5Y502B00007
ZH73 ZH75
PR401
Q406
B1DELQ000002
ZH36 ZH37 ZH38
B0JAME0000B1
D415
L402
EXCELSA24T
Q404
B1ADRC000007
C412
0.01
R426
10K
F405
136deg
R428
10K
R439
12
R493
12
ZH48 ZH50
C446
330u
C448
330u
ZH49 ZH45
R466
100K
R499
4.7
Q410
B1CEJQ000001
R474
1K
D421
MAZ41500MF
R468
470K
R469
470K
R470
470K
Q411
UNR521300L
TP3 TP4
ZH92 ZH96 ZH98
R448
R10
R449
R10
R450
R10
ZH95 ZH97 ZH99
R414
15K
R436
15K
C408
47
C431
1000P
R424
22K
R421
33K
Q401
B1DHBD000002
C414
R471
3300
C462
1u
B0JCDD000002
D431
MAZ4051NM1KT
D433
R437
10K
C463
22P
8 7 6 5
Vcc GND
IC406
MOS DRIVE
CURR DET
CURR COMP
C0DAZZ000019
1 2 3 4
R467
1K
Q420
2SD1819ARL
C427
1u
C423
4700P
R431
10K
R438
330
C428
220P
R417
430K
R430
430K
R462
430K
R433
12K
C426
470P
R463
33K
C459
0.015
C429
0.015
C430
0.015
R440
470K
R441
680K
R442
680K
R475
680K
R444
12K
TP7
R443
2K
PFC
TP5 TP6
D414
MA2C165001VT
R472
560K
R473
560K
R465
560K
C436
1u
R456
33K
R452
10K
Q407
XP0460100L
R415
10K
R454
10K
R458
4700
D418
MAZ40820MF
TP8
C432
1u
R451
33K
C445
1u
C440
10u
R464
33K

TH-42PHD6/TH-42PHW6
P-BOARD (1 of 6) and Schematic Diagram

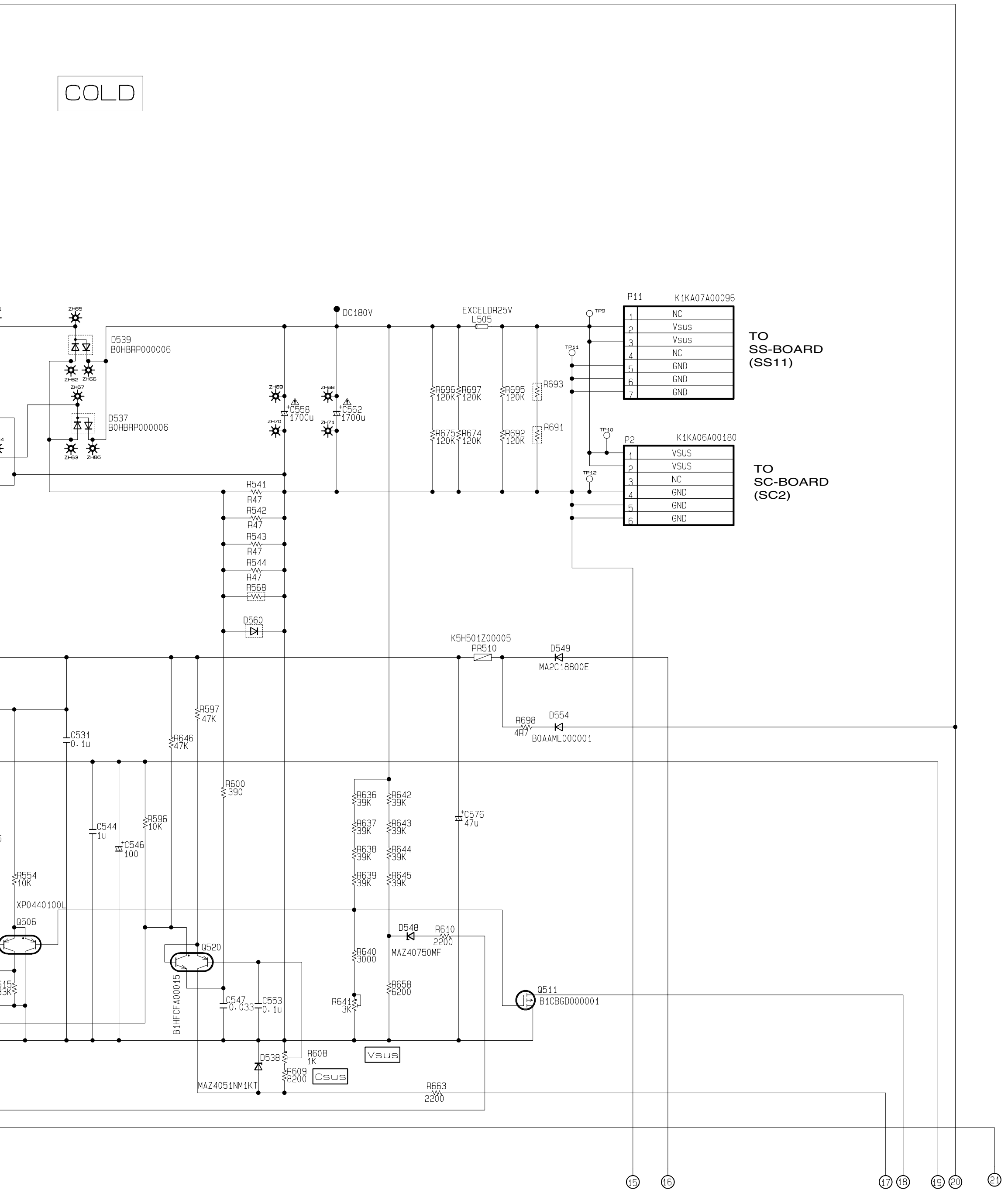
5 6 7 8

14.6. P-Board (2 of 6) Schematic Diagram

⚠ **P-BOARD TNPA2889 (2/6)**

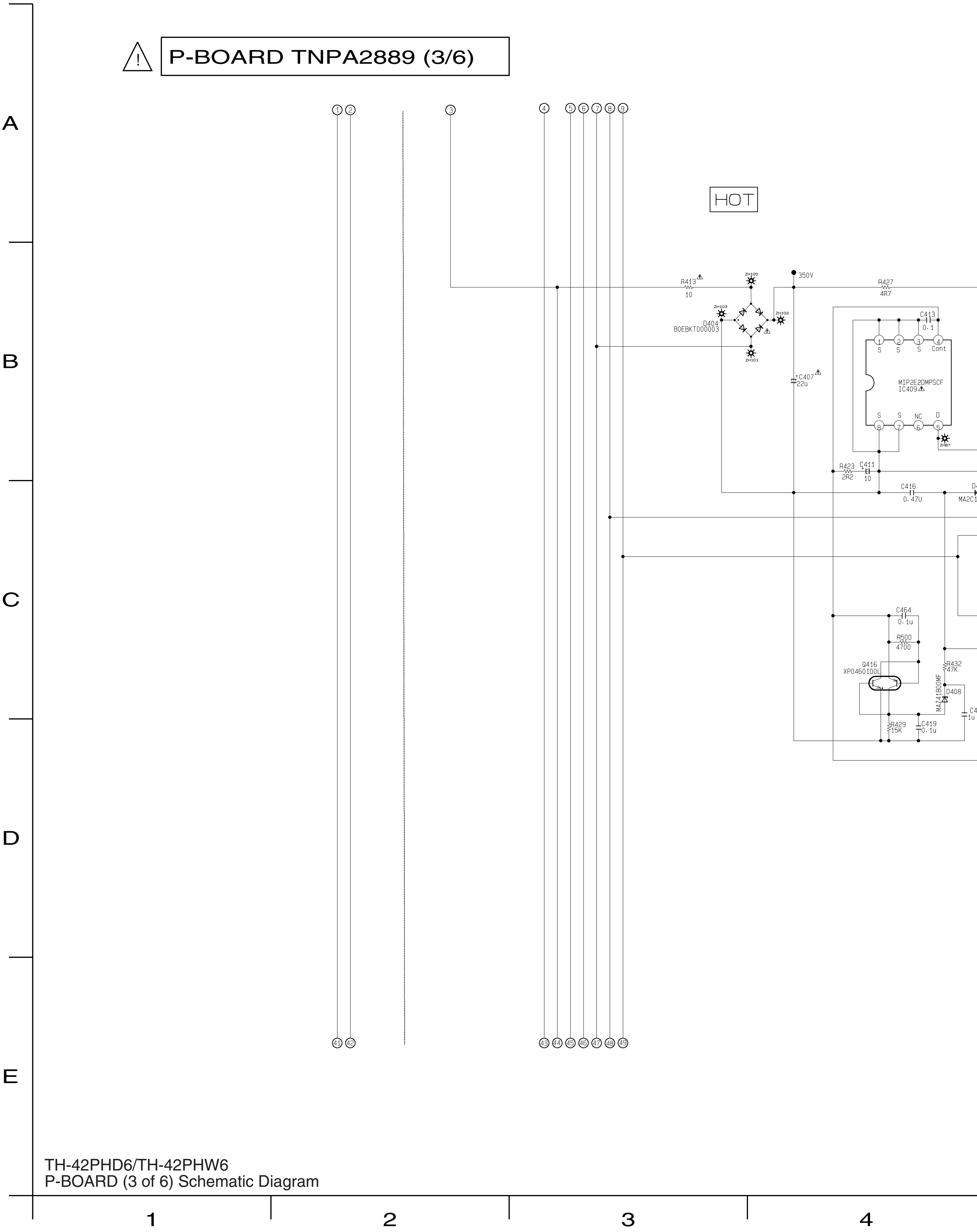


⑭
⑩
⑪
⑫ ⑬
HOT
COLD
Q414
B1DEGQ000030
R481
620
R484
30
D424
B0JAME000081
C455
220P
Q415
B1DEGQ000030
R483
620
D426
B0JAME000081
R485
30
T405
ETS42LZ116AD
C458
0.068u
16
12
C465
470P
D539
D537
T403
ETS19AB1T6AG
R656
3300
R657
3300
R569
3.3K
B1DHBD000002
Q512
C540
1500P
Q517
C525
0.01u
R565
2.2K
R557
10
C531
0.1u
C541
1u
R558
27K
XP0440100L
R553
7.5K
R655
0
R546
22K
C544
1u
R572
4700
R554
10K
B1CBGD000001
Q513
XP0440100L
R567
12K
Q506
R570
100K
C503
0.1u
R571
8200
R615
33K
R566
330
C539
0.033
Q516
B1DHBD000002
R564
1K
R559
470
R551
470
R589
10K
R590
3300
C604
0.1
Q525
XP0460100L
R581
3300
B1CFNG000001
Q515
B1MBACA00005
Q514
C606
1000P
Q528
R599
3300
C603
0.1
R594
3300
R595
10K
C605
0.01u
2SD1819ARL
IC521
C0JBAF000367
Q CLR PR Vcc
GND -Q D CK
1000P
C537
C538
0.01u
C0JBAZ002056
IC522
R535
100K
C526
0.1u
D564
MA2J11100L
Q504
B1CFNG000001

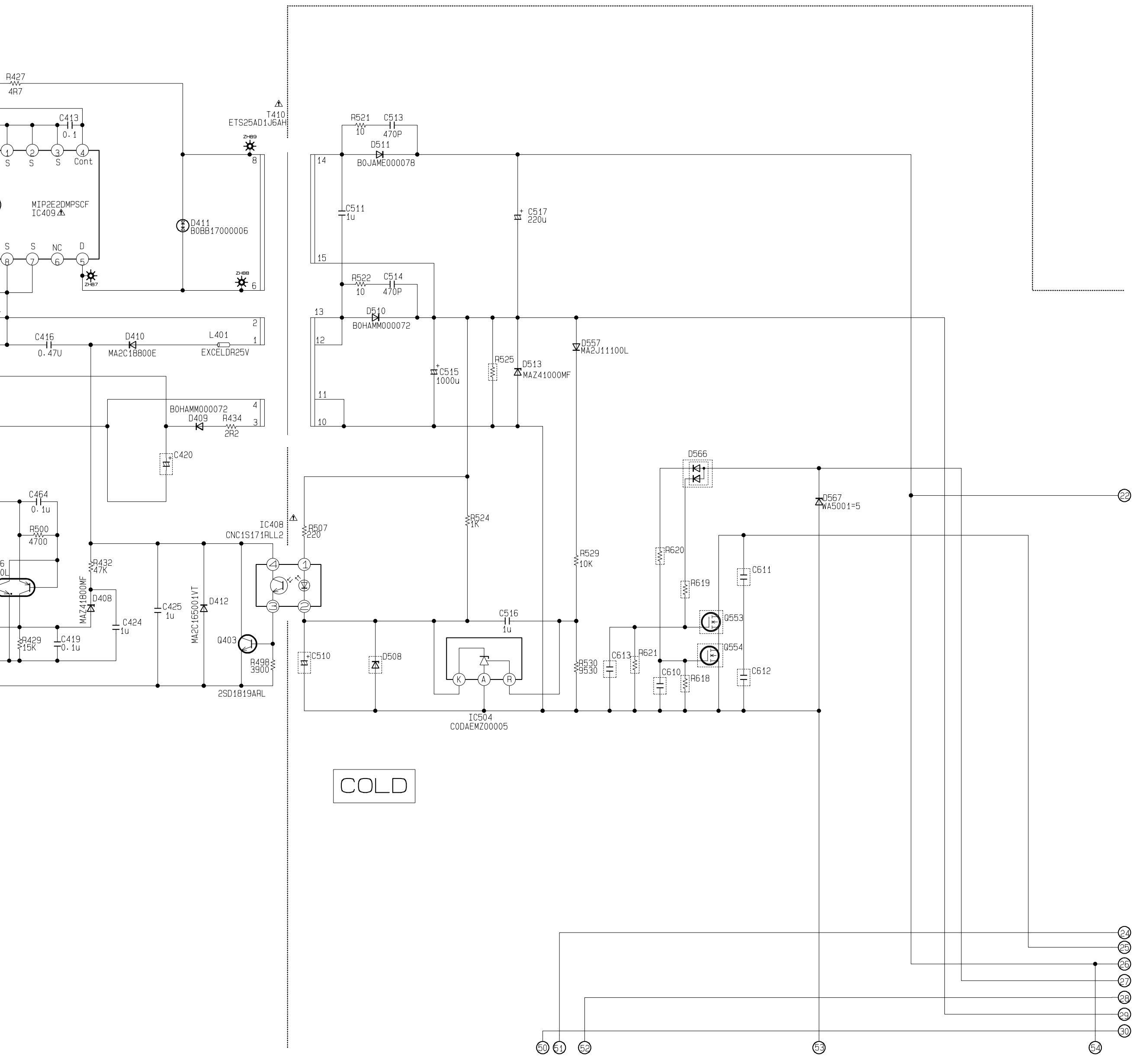

COLD
DC180V
EXCELDR25V
L505
P11
K1KA07A00096
NC
Vsus
Vsus
NC
GND
GND
GND
TO
SS-BOARD
(SS11)
P2
K1KA06A00180
VSUS
VSUS
NC
GND
GND
GND
TO
SC-BOARD
(SC2)
TP9
TP10
TP11
TP12
D539
B0HBRP000006
D537
B0HBRP000006
C558
1700u
C562
1700u
R696 120K
R697 120K
R695 120K
R693
R675 120K
R674 120K
R692 120K
R691
R541 R47
R542 R47
R543 R47
R544 R47
R568
D560
K5H501Z00005
PR510
D549
MA2C18800E
R698 4R7
D554
B0AAML000001
R597 47K
R646 47K
C531 0.1u
R600 390
C544 1u
C546 100
R596 10K
R554 10K
XP0440100L
Q506
Q520
B1HFCFA00015
C547 0.033
C553 0.1u
R636 39K
R637 39K
R638 39K
R639 39K
R642 39K
R643 39K
R644 39K
R645 39K
D548
MAZ40750MF
R610 2200
R640 3000
R641 3K
R658 6200
C576 47u
Q511
B1CBGD000001
D538
MAZ4051NM1KT
R608 1K
R609 8200
Csus
Vsus
R663 2200
⑮
⑯
⑰
⑱
⑲
⑳
㉑

TH-42PHD6/TH-42PHW6
P-BOARD (2 of 6) Schematic Diagram

14.7. P-Board (3 of 6) Schematic Diagram

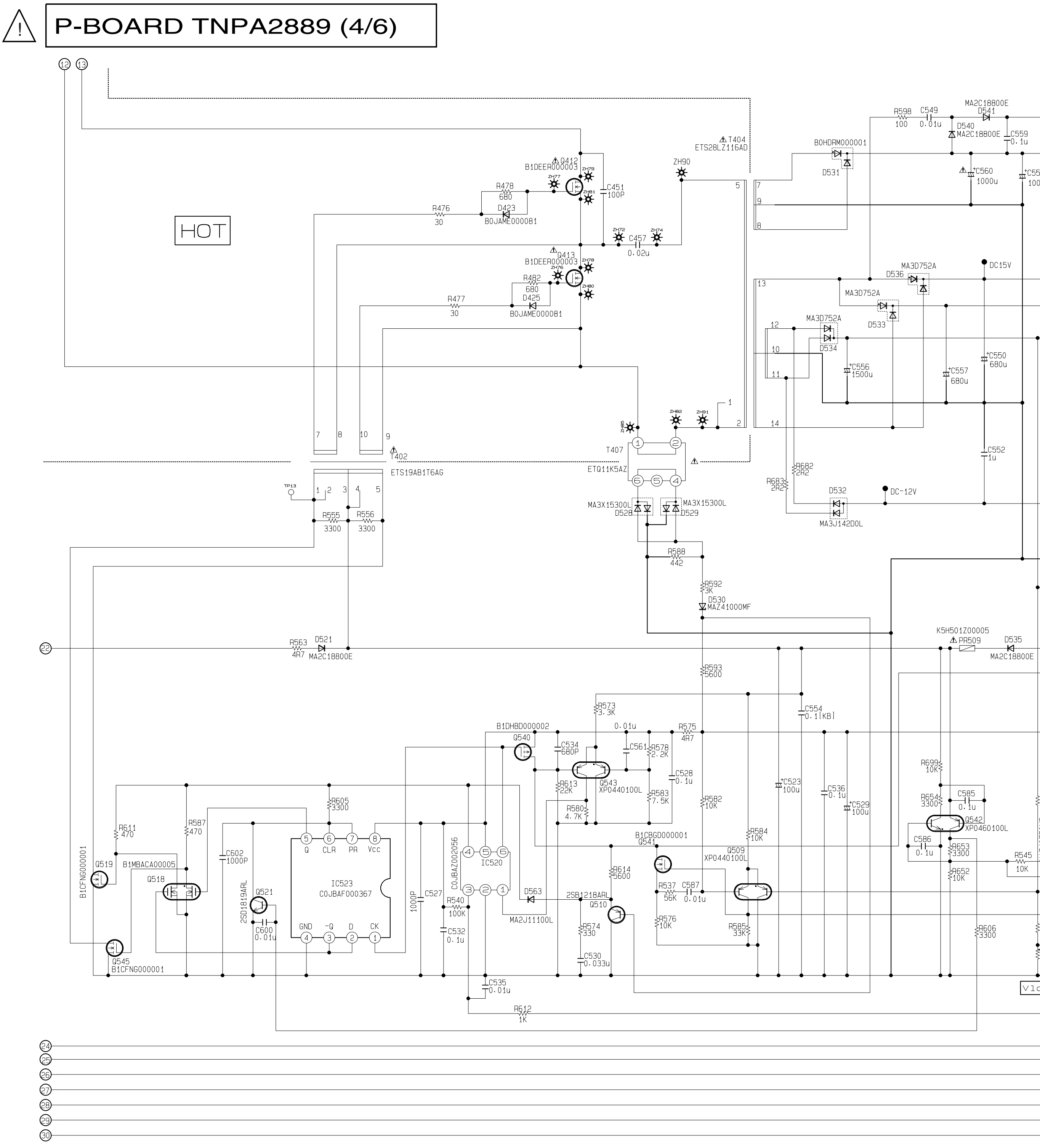

P-BOARD TNPA2889 (3/6)
A
B
C
D
E
1
2
3
4
①
②
③
④
⑤
⑥
⑦
⑧
⑨
HOT
R413
10
ZH100
350V
R427
4R7
ZH103
ZH102
D404
B0EBKT000003
ZH101
C413
0.1
1
2
3
4
S
S
S
Cont
+C407
22u
MIP2E2DMPSCF
IC409
S
S
NC
D
8
7
6
5
ZH87
R423
2R2
C411
10
C416
0.47U
D4
MA2C1
C464
0.1u
R500
4700
Q416
XP0460100L
R432
47K
MAZ41800MF
D408
C4
1u
R429
15K
C419
0.1u
㊶
㊷
㊸
㊹
㊺
㊻
㊼
㊽
㊾

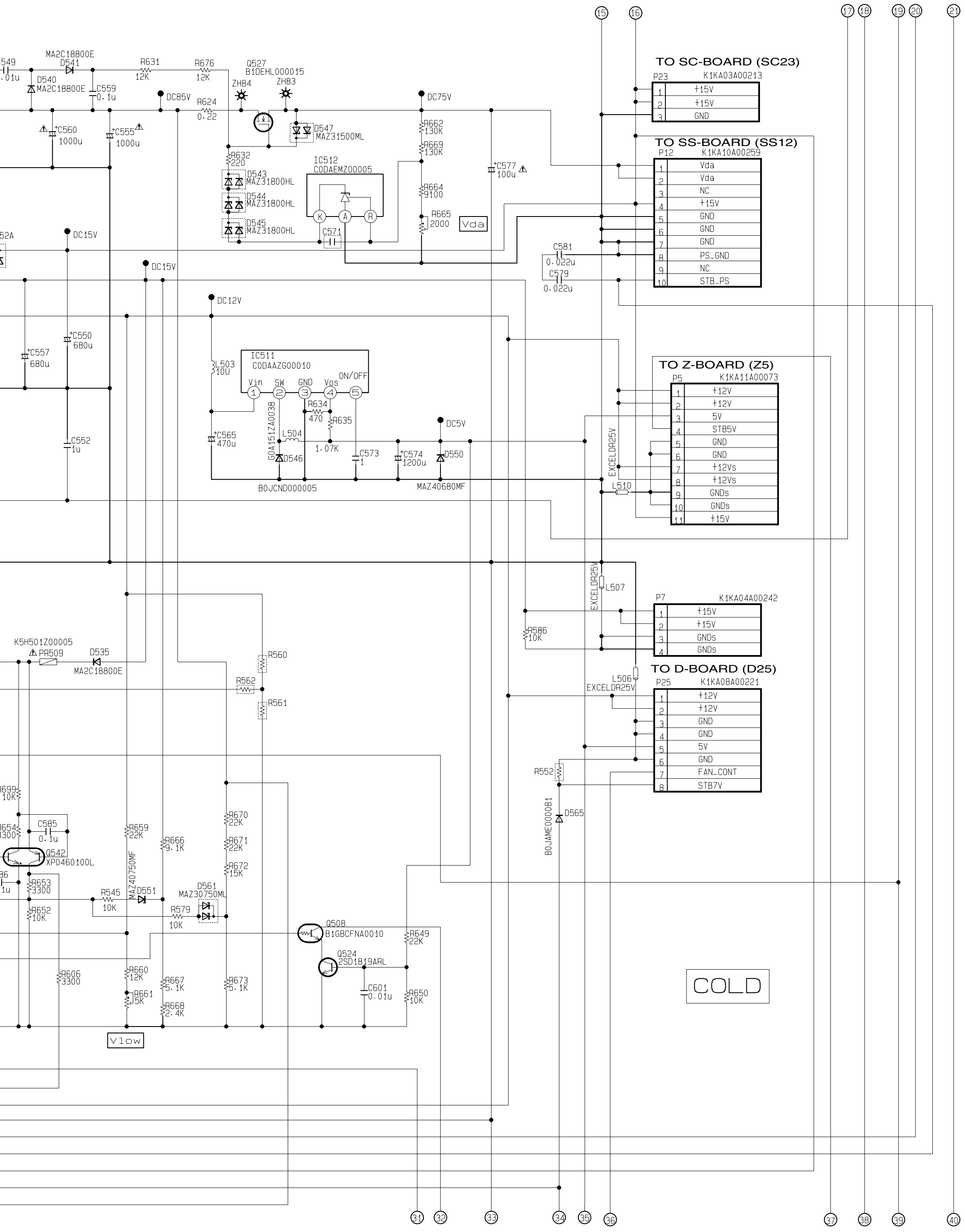
TH-42PHD6/TH-42PHW6
P-BOARD (3 of 6) Schematic Diagram


R427
4R7
C413
0.1
S
S
S
Cont
MIP2E2DMPSCF
IC409
S
S
NC
D
T410
ETS25AD1J6AH
ZH89
ZH88
ZH87
D411
B0BB17000006
C416
0.47U
D410
MA2C18B00E
L401
EXCELDR25V
B0HAMM000072
D409
R434
2R2
C420
C464
0.1u
R500
4700
R432
47K
D408
MAZ41800MF
R429
15K
C419
0.1u
C424
1u
C425
1u
MA2C165001VT
D412
Q403
R498
3900
2SD1819ARL
IC408
CNC1S171RLL2
R507
220
R521
10
C513
470P
D511
B0JAME000078
C511
1u
C517
220u
R522
10
C514
470P
D510
B0HAMM000072
C515
1000u
R525
D513
MAZ41000MF
D557
MA2J11100L
R524
1K
R529
10K
C516
1u
C510
D508
IC504
C0DAEMZ00005
R530
9530
C613
R621
C610
R618
R620
R619
Q553
Q554
C611
C612
D566
D567
WA5001=5
COLD
22
24
25
26
27
28
29
30
50
51
52
53
54

TH-42PHD6/TH-42PHW6
P-BOARD (3 of 6) and Schematic Diagram

14.8. P-Board (4 of 6) Schematic Diagram


P-BOARD TNPA2889 (4/6)
HOT
T404
ETS28LZ116AD
Q412
B1DEER000003
R478
680
R476
30
D423
B0JAME000081
C451
100P
C457
0.02u
ZH90
Q413
B1DEER000003
R482
680
D425
R477
30
B0JAME000081
T402
ETS19AB1T6AG
T407
ETQ11K5AZ
TP13
R555
3300
R556
3300
MA3X15300L
D528
D529
R588
442
R592
3K
D530
MAZ41000MF
R563
4R7
D521
MA2C18800E
R593
5600
R598
100
C549
0.01u
MA2C18800E
D541
D540
MA2C18800E
C559
0.1u
B0HDRM000001
D531
C560
1000u
MA3D752A
D536
DC15V
D533
D534
C556
1500u
C557
680u
C550
680u
C552
1u
R682
2R2
R683
2R2
D532
MA3J142D0L
DC-12V
K5H501Z00005
PR509
D535
MA2C18800E
R573
3.3K
C554
0.1[KB]
B1DHBD000002
Q540
C534
680P
C561
0.01u
R578
2.2K
R575
4R7
Q543
XP0440100L
R613
22K
C528
0.1u
R583
7.5K
R580
4.7K
R582
10K
C523
100u
C536
0.1u
C529
100u
R699
10K
R654
3300
C585
0.1u
Q542
XP0460100L
C586
0.1u
R653
3300
R652
10K
R545
10K
R605
3300
R611
470
R587
470
C602
1000P
B1CFNG000001
Q519
B1MBACA00005
Q518
2SD1819ARL
Q521
C600
0.01u
IC523
C0JBAF000367
Q
CLR
PR
Vcc
GND
-Q
D
CK
C527
1000P
C0JBAZ002056
IC520
R540
100K
C532
0.1u
D563
MA2J11100L
2SB1218ARL
Q510
R574
330
C530
0.033u
B1CBGD000001
Q541
R614
5600
R537
56K
C587
0.01u
R576
10K
Q509
XP0440100L
R584
10K
R585
33K
R606
3300
Q545
B1CFNG000001
C535
0.01u
R612
1K
12
13
22
24
25
26
27
28
29
30

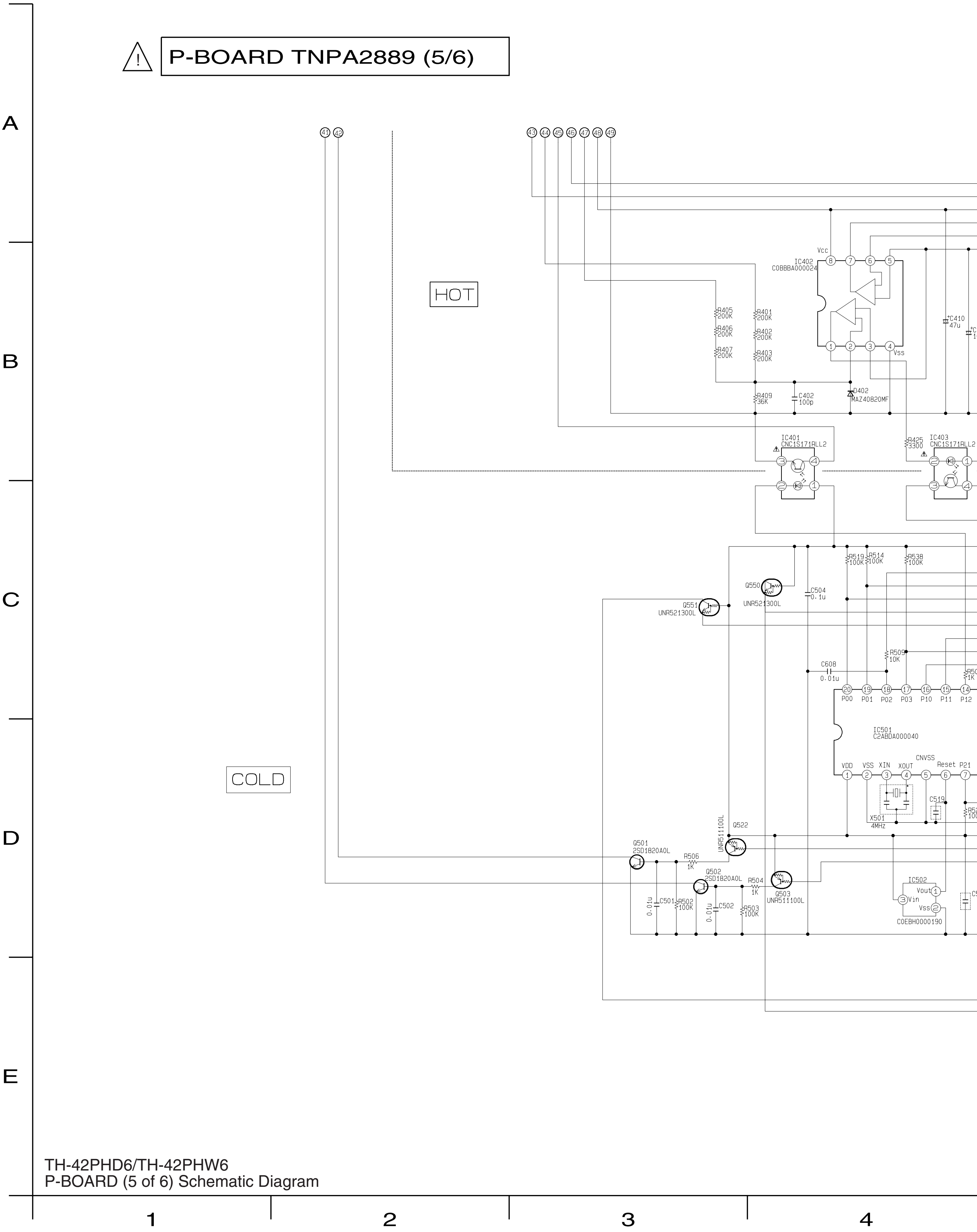


TO SC-BOARD (SC23)
P23 K1KA03A00213
1 +15V
2 +15V
3 GND
TO SS-BOARD (SS12)
P12 K1KA10A00259
1 Vda
2 Vda
3 NC
4 +15V
5 GND
6 GND
7 GND
8 PS_GND
9 NC
10 STB_PS
TO Z-BOARD (Z5)
P5 K1KA11A00073
1 +12V
2 +12V
3 5V
4 STB5V
5 GND
6 GND
7 +12Vs
8 +12Vs
9 GNDs
10 GNDs
11 +15V
P7 K1KA04A00242
1 +15V
2 +15V
3 GNDs
4 GNDs
TO D-BOARD (D25)
P25 K1KA0BA00221
1 +12V
2 +12V
3 GND
4 GND
5 5V
6 GND
7 FAN_CONT
8 STB7V
MA2C18800E D541
D540 MA2C18800E
C559 0.1u
R631 12K
R676 12K
Q527 B1DEHL000015
ZH84
ZH83
DC85V
R624 0.22
DC75V
C560 1000u
C555 1000u
D547 MAZ31500ML
R662 130K
R669 130K
R632 220
D543 MAZ31800HL
D544 MAZ31800HL
D545 MAZ31800HL
IC512 C0DAEMZ00005
K A R
C571
R664 9100
R665 2000
Vda
C577 100u
C581 0.022u
C579 0.022u
DC15V
DC15V
DC12V
C550 680u
C557 680u
C552 1u
IC511 C0DAAZG00010
Vin SW GND Vos ON/OFF
L503 10U
R634 470
R635 1.07K
L504
G0A151ZA0038
D546
C565 470u
C573 1
C574 1200u
D550
DC5V
MAZ40680MF
B0JCND000005
EXCELDR25V
L510
EXCELDR25V
L507
R586 10K
L506 EXCELDR25V
R552
D565
B0JAME000081
K5H501Z00005
PR509
D535 MA2C18800E
R560
R562
R561
R699 10K
R654 3300
C585 0.1u
Q542 XP04601000L
R653 3300
R652 10K
R659 22K
R666 9.1K
R670 22K
R671 22K
R672 15K
MAZ40750MF
R545 10K
D551
D561 MAZ30750ML
R579 10K
Q508 B1GBCFNA0010
Q524 2SD1819ARL
R649 22K
C601 0.01u
R650 10K
R606 3300
R660 12K
R661 15K
R667 5.1K
R668 2.4K
R673 5.1K
Vlow
COLD
⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ㉑
㉛ ㉜ ㉝ ㉞ ㉟ ㊱ ㊲ ㊳ ㊴ ㊵

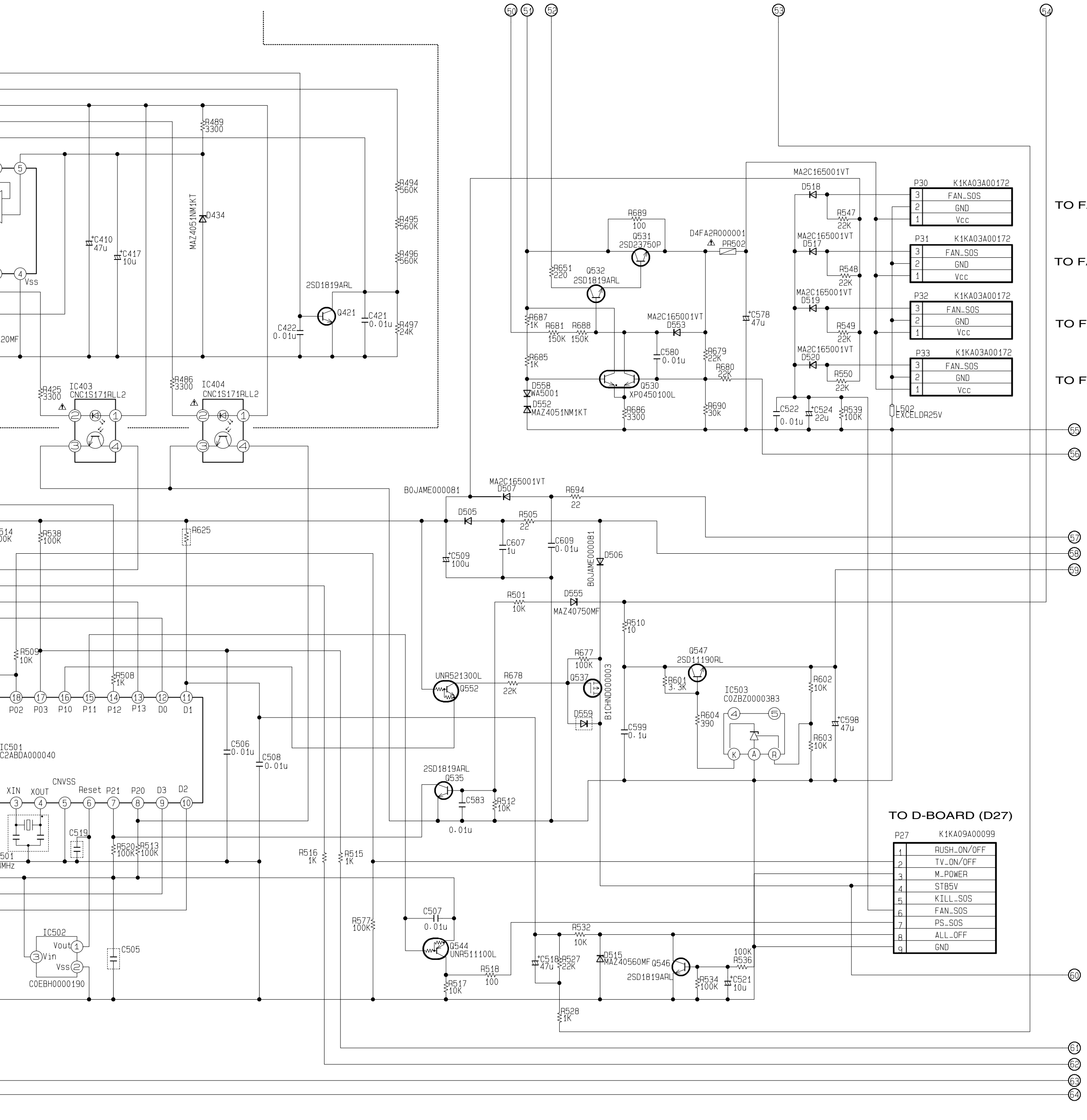
TH-42PHD6/TH-42PHW6
P-BOARD (4 of 6) Schematic Diagram

12	13	14	15

14.9. P-Board (5 of 6) Schematic Diagram


P-BOARD TNPA2889 (5/6)
A
B
C
D
E
1
2
3
4
HOT
COLD
41
42
43
44
45
46
47
48
49
IC402
C0BBBA000024
Vcc
Vss
R405 200K
R406 200K
R407 200K
R401 200K
R402 200K
R403 200K
R409 36K
C402 100p
D402 MAZ40820MF
C410 47u
IC401 CNC1S171RLL2
IC403 CNC1S171RLL2
R425 3300
R519 100K
R514 100K
R538 100K
Q550 UNR521300L
Q551 UNR521300L
C504 0.1u
R509 10K
C608 0.01u
P00
P01
P02
P03
P10
P11
P12
IC501
C2ABDA000040
VDD
VSS
XIN
XOUT
CNVSS
Reset
P21
C519
X501 4MHz
Q522 UNR511100L
Q501 2SD1820A0L
R506 1K
Q502 2SD1820A0L
R504 1K
Q503 UNR511100L
C501 0.01u
R502 100K
C502 0.01u
R503 100K
IC502
Vout
Vin
Vss
C0EBH0000190

TH-42PHD6/TH-42PHW6
P-BOARD (5 of 6) Schematic Diagram

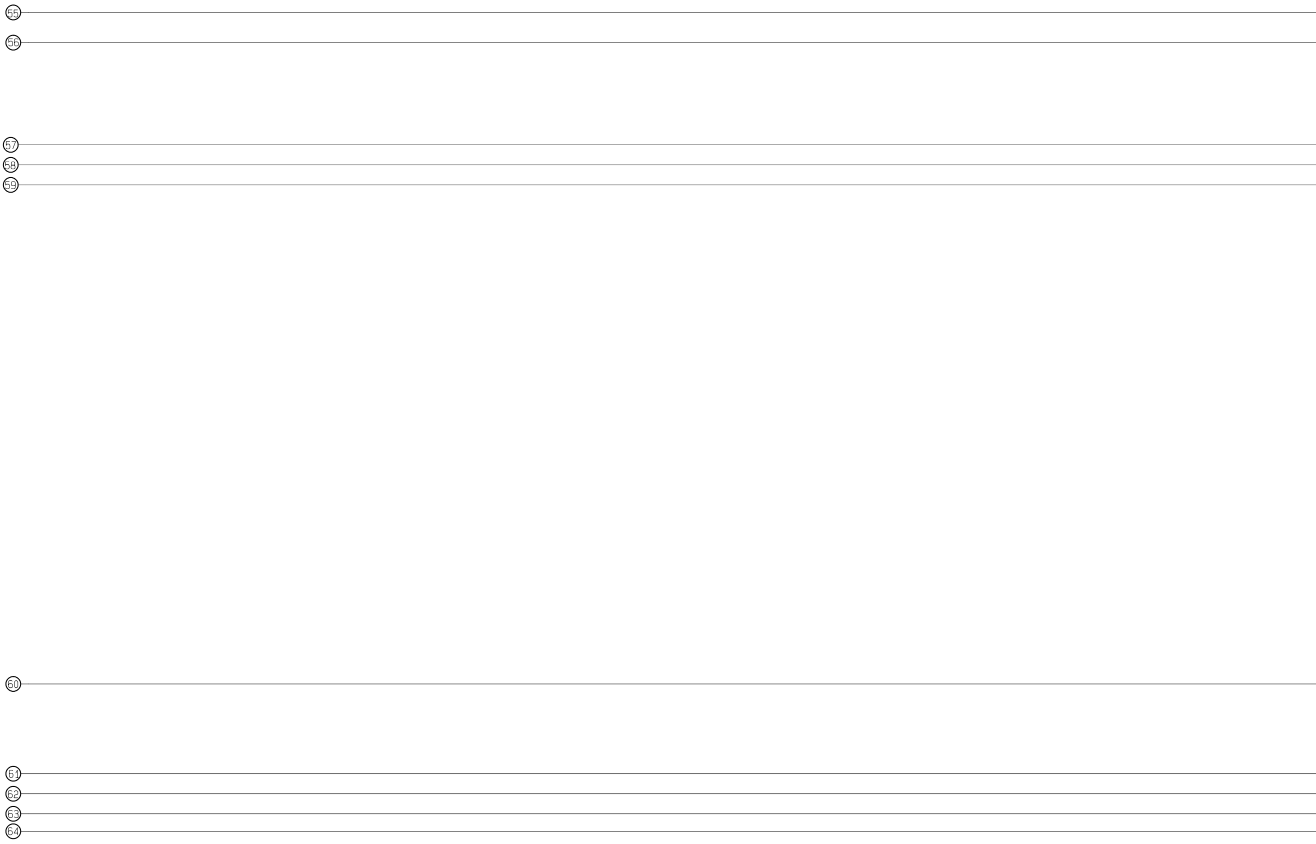

TO FAN
TO FAN
TO FAN
TO FAN
P30 K1KA03A00172
P31 K1KA03A00172
P32 K1KA03A00172
P33 K1KA03A00172
FAN_SOS
GND
Vcc
TO D-BOARD (D27)
P27 K1KA09A00099
RUSH_ON/OFF
TV_ON/OFF
M_POWER
STB5V
KILL_SOS
FAN_SOS
PS_SOS
ALL_OFF
GND
MA2C165001VT
D518
D517
D519
D520
R547 22K
R548 22K
R549 22K
R550 22K
D4FA2R000001
PR502
C578 47u
R689 100
Q531 2SD2375OP
Q532 2SD1819ARL
R651 220
R687 1K
R681 150K
R688 150K
D553
C580 0.01u
R679 22K
R680 22K
R685 1K
D558 MA5001
D552 MAZ4051NM1KT
Q530 XP0450100L
R686 3300
R690 30K
C522 0.01u
C524 22u
R539 100K
L502 EXCELDR25V
B0JAME000081
D507
R694 22
D505
R505 22
C607 1u
C609 0.01u
C509 100u
D506
R501 10K
D555 MAZ40750MF
R510 10
R677 100K
Q537
D559
B1CHND000003
UNR521300L
Q552
R678 22K
C599 0.1u
Q547 2SD1190RL
R601 3.3K
IC503 C0ZBZ0000383
R604 390
R602 10K
R603 10K
C598 47u
2SD1819ARL
Q535
C583 0.01u
R512 10K
R516 1K
R515 1K
R577 100K
C507 0.01u
Q544 UNR511100L
R517 10K
R518 100
R532 10K
C518 47u
R527 22K
D515 MAZ40560MF
Q546 2SD1819ARL
R534 100K
R536 100K
C521 10u
R528 1K
R489 3300
D434
MAZ4051NM1KT
C410 47u
C417 10u
R494 560K
R495 560K
R496 560K
R497 24K
2SD1819ARL
Q421
C421 0.01u
C422 0.01u
R425 3300
IC403 CNC1S171RLL2
R486 3300
IC404 CNC1S171RLL2
Vss
20MF
R538 100K
R625
R509 10K
R508 1K
P02 P03 P10 P11 P12 P13 D0 D1
IC501 C2ABDA000040
XIN XOUT CNVSS Reset P21 P20 D3 D2
C506 0.01u
C508 0.01u
C519
R520 100K
R513 100K
IC502
Vout
Vin
Vss
C0EBH0000190
C505
50 51 52 53 54 55 56 57 58 59 60 61 62 63 64

TH-42PHD6/TH-42PHW6
P-BOARD (5 of 6) and Schematic Diagram

5 6 7 8

14.10. P-Board (6 of 6) Schematic Diagram

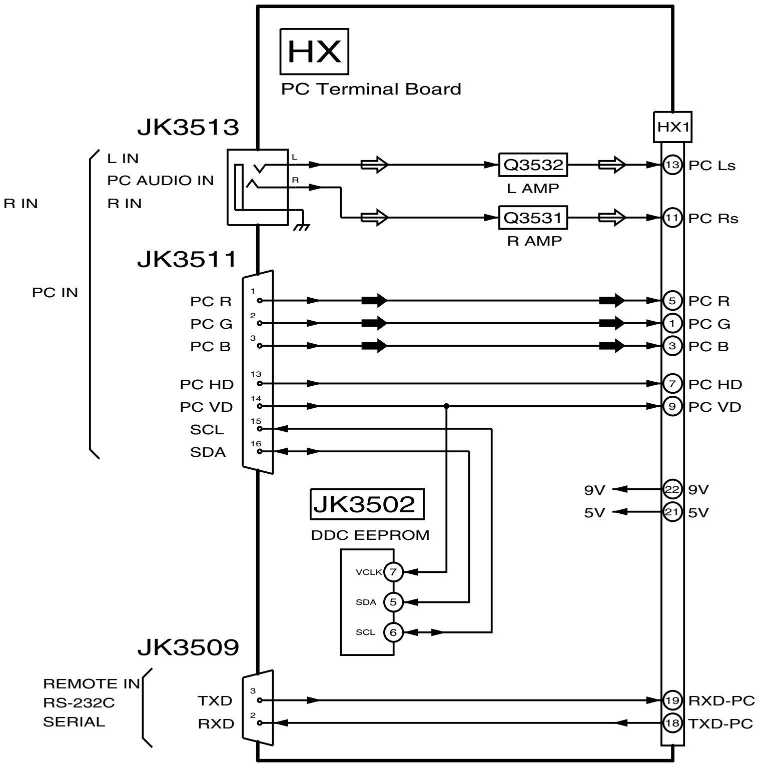
⚠ **P-BOARD TNPA2889 (6/6)**


55
56
57
58
59
60
61
62
63
64

31
32
33
34
35
36
37
38
39
40
COLD

TH-42PHD6/TH-42PHW6
P-BOARD (6 of 6) Schematic Diagram

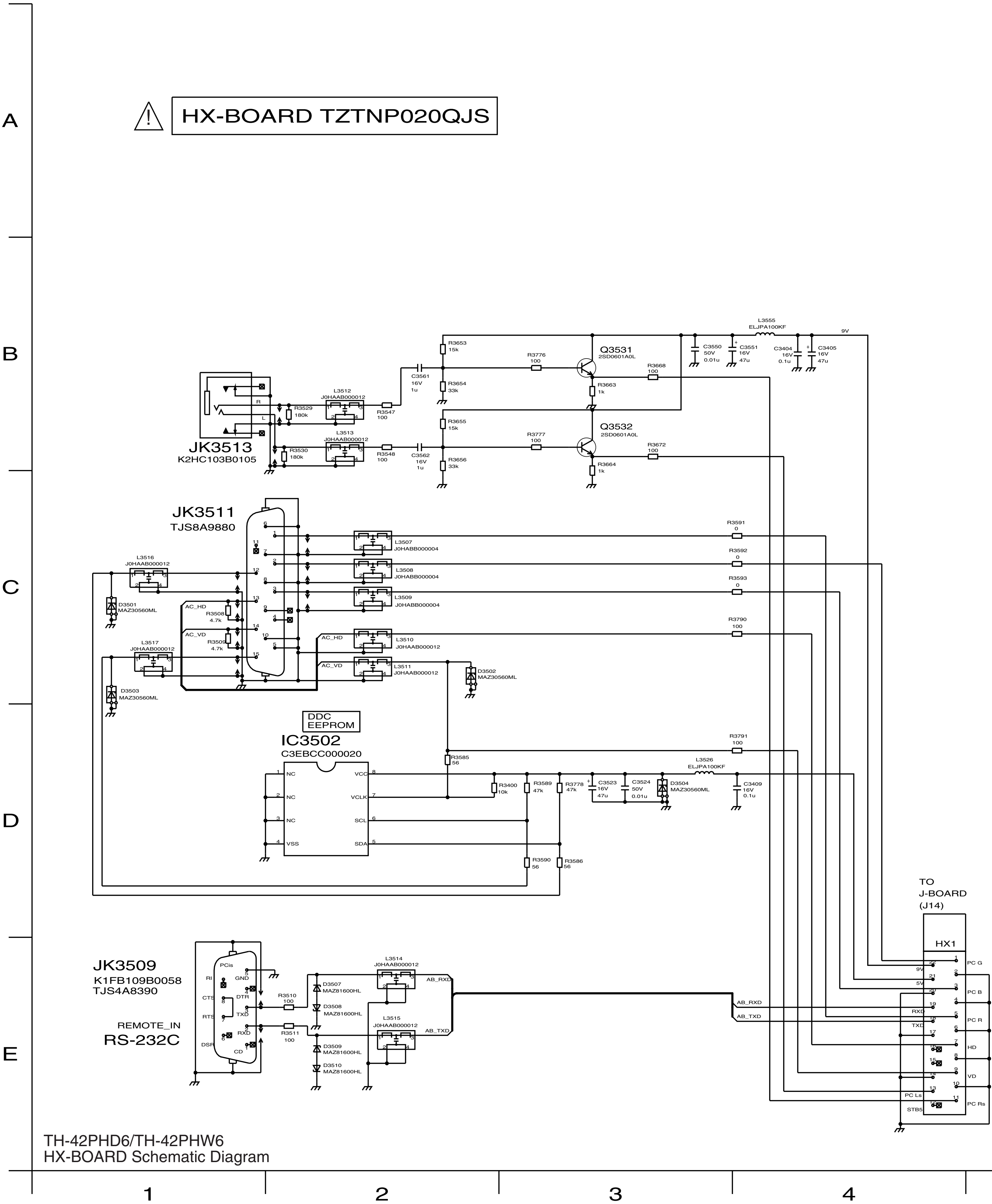
14.11. HX-Board Block Diagram


HX
PC Terminal Board
JK3513
L IN
PC AUDIO IN
R IN
R IN
L
R
Q3532
L AMP
Q3531
R AMP
HX1
13 PC Ls
11 PC Rs
JK3511
PC IN
PC R
PC G
PC B
PC HD
PC VD
SCL
SDA
1
2
3
13
14
15
16
5 PC R
1 PC G
3 PC B
7 PC HD
9 PC VD
9V
5V
22 9V
21 5V
JK3502
DDC EEPROM
VCLK 7
SDA 5
SCL 6
JK3509
REMOTE IN
RS-232C
SERIAL
TXD
RXD
3
2
19 RXD-PC
18 TXD-PC

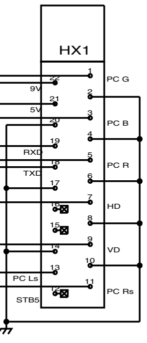
TH-42PHD6/TH-42PHW6
HX-BOARD Block Diagram

TH-42PHD6/TH-42PHW6
HX-BOARD Block Diagram

14.12. HX-Board Schematic Diagram


A
B
C
D
E
1
2
3
4
HX-BOARD TZTNP020QJS
JK3513
K2HC103B0105
R
L
R3529
180k
R3530
180k
L3512
J0HAAB000012
L3513
J0HAAB000012
R3547
100
R3548
100
C3561
16V
1u
C3562
16V
1u
R3653
15k
R3654
33k
R3655
15k
R3656
33k
R3776
100
R3777
100
Q3531
2SD0601A0L
Q3532
2SD0601A0L
R3663
1k
R3664
1k
R3668
100
R3672
100
C3550
50V
0.01u
C3551
16V
47u
L3555
ELJPA100KF
C3404
16V
0.1u
C3405
16V
47u
9V
JK3511
TJS8A9880
L3516
J0HAAB000012
D3501
MAZ30560ML
AC_HD
R3508
4.7k
AC_VD
R3509
4.7k
L3517
J0HAAB000012
D3503
MAZ30560ML
L3507
J0HABB000004
L3508
J0HABB000004
L3509
J0HABB000004
L3510
J0HAAB000012
L3511
J0HAAB000012
D3502
MAZ30560ML
R3591
0
R3592
0
R3593
0
R3790
100
R3791
100
DDC
EEPROM
IC3502
C3EBCC000020
NC
NC
NC
VSS
VCC
VCLK
SCL
SDA
R3585
56
R3400
10k
R3589
47k
R3778
47k
C3523
16V
47u
C3524
50V
0.01u
D3504
MAZ30560ML
L3526
ELJPA100KF
C3409
16V
0.1u
R3590
56
R3586
56
TO
J-BOARD
(J14)
HX1
PC G
PC B
PC R
HD
VD
PC Rs
9V
5V
RXD
TXD
PC Ls
STB5
AB_RXD
AB_TXD
JK3509
K1FB109B0058
TJS4A8390
REMOTE_IN
RS-232C
PCis
RI
CTS
RTS
DSR
GND
DTR
TXD
RXD
CD
R3510
100
R3511
100
D3507
MAZ81600HL
D3508
MAZ81600HL
D3509
MAZ81600HL
D3510
MAZ81600HL
L3514
J0HAAB000012
L3515
J0HAAB000012

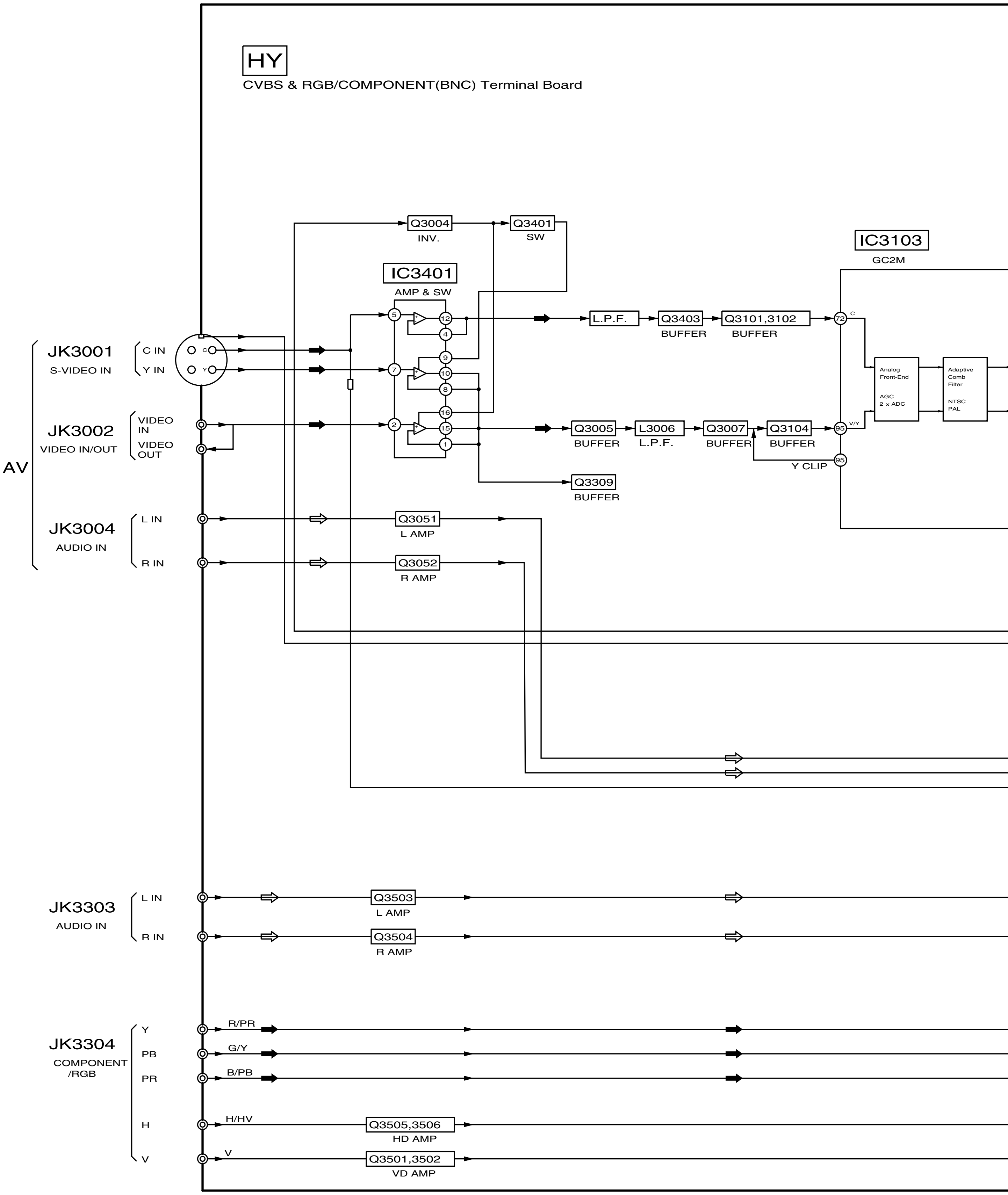
TH-42PHD6/TH-42PHW6
HX-BOARD Schematic Diagram


TO
J-BOARD
(J14)
HX1
1
22
PC G
9V
2
21
5V
3
20
PC B
4
19
RXD
5
18
PC R
TXD
6
17
7
16
HD
8
15
9
14
VD
10
13
PC Ls
11
12
PC Rs
STB5

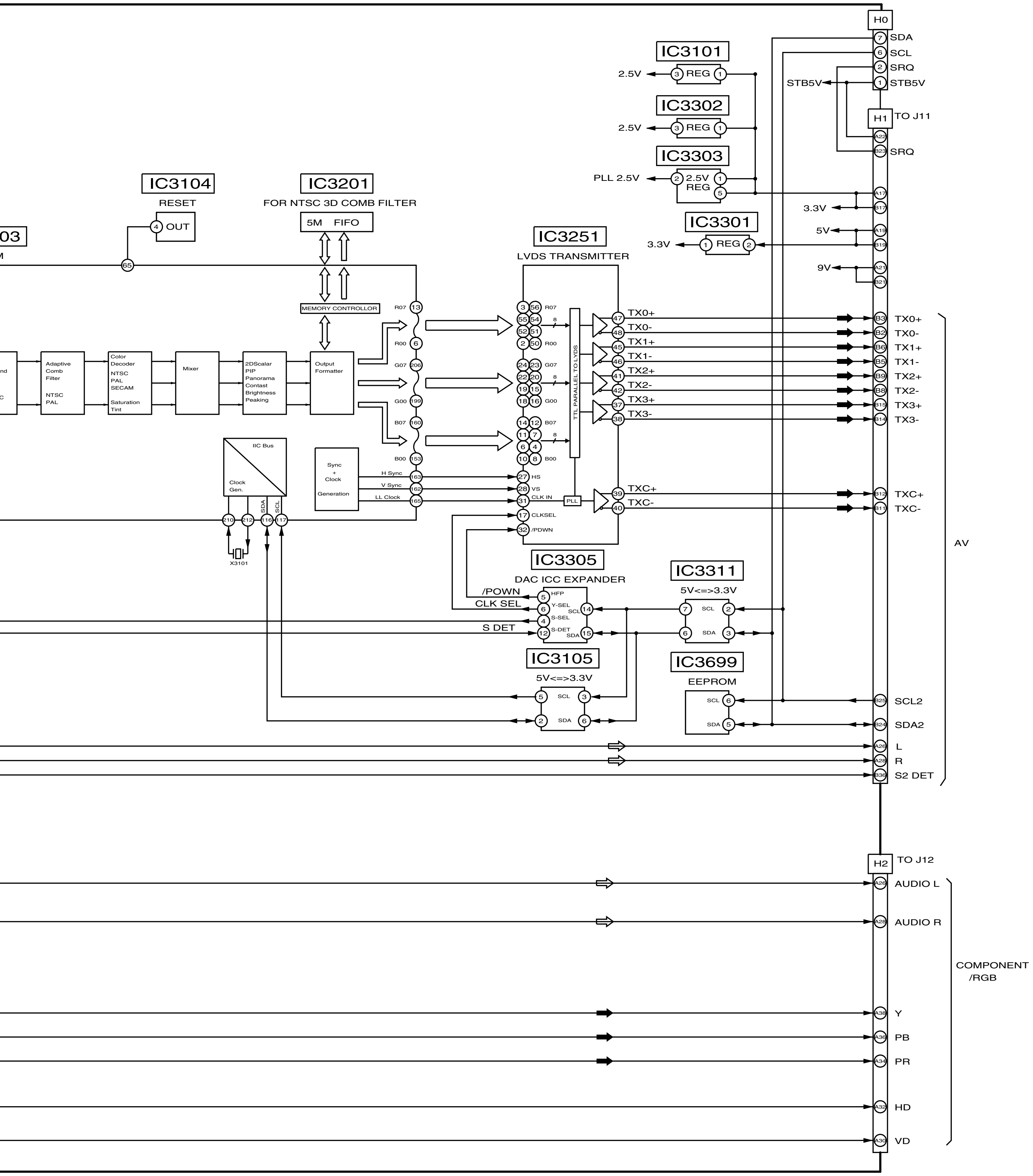
TH-42PHD6/TH-42PHW6
HX-BOARD Schematic Diagram

5 6 7 8

14.13. HY-Board Block Diagram

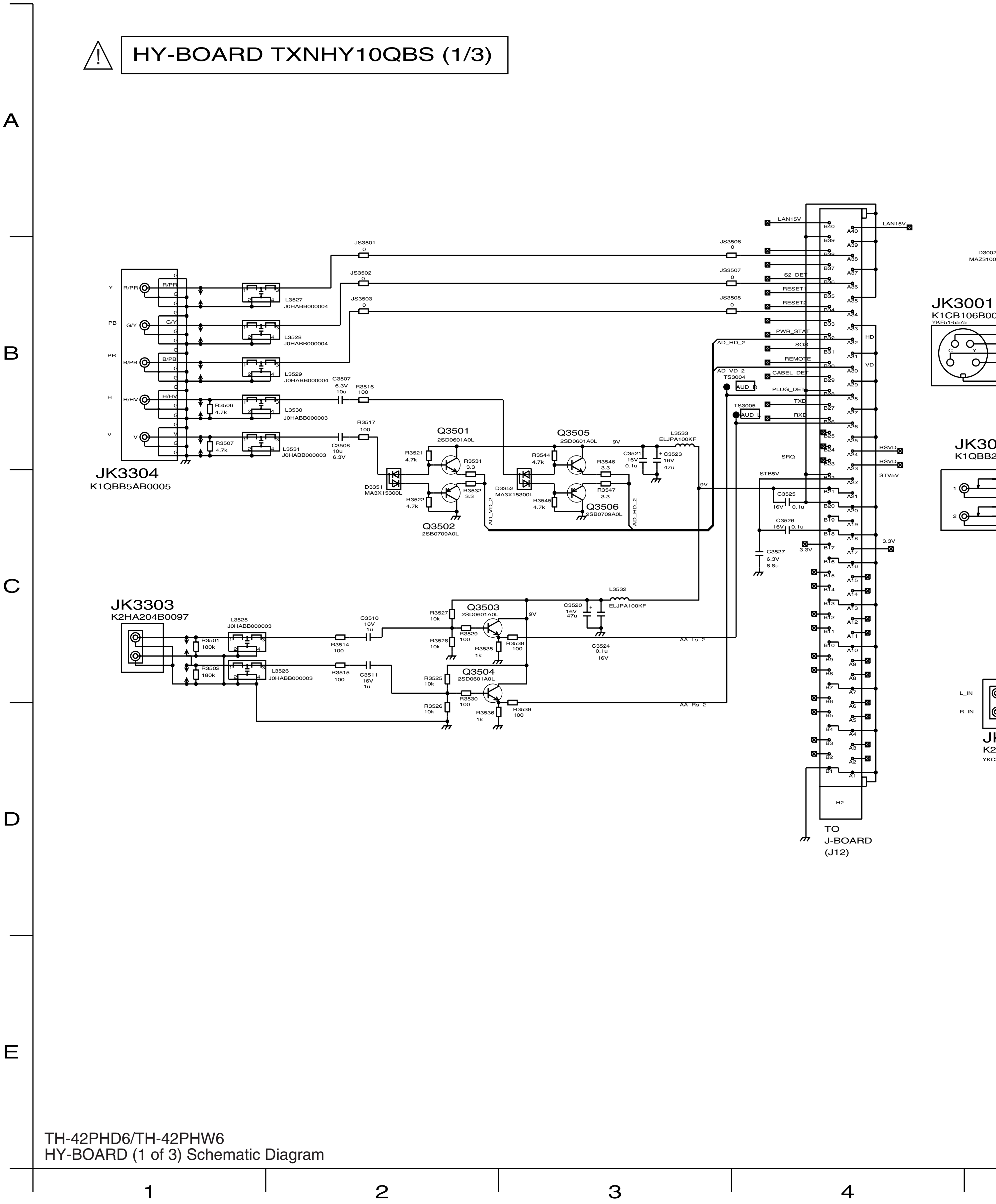

HY
CVBS & RGB/COMPONENT(BNC) Terminal Board
Q3004
INV.
Q3401
SW
IC3103
GC2M
IC3401
AMP & SW
L.P.F.
Q3403
BUFFER
Q3101,3102
BUFFER
72
C
Analog
Front-End
AGC
2 x ADC
Adaptive
Comb
Filter
NTSC
PAL
5
12
4
9
7
10
8
16
2
15
1
JK3001
S-VIDEO IN
C IN
Y IN
C
Y
JK3002
VIDEO IN/OUT
VIDEO IN
VIDEO OUT
AV
Q3005
BUFFER
L3006
L.P.F.
Q3007
BUFFER
Q3104
BUFFER
95
V/Y
95
Y CLIP
Q3309
BUFFER
JK3004
AUDIO IN
L IN
R IN
Q3051
L AMP
Q3052
R AMP
JK3303
AUDIO IN
L IN
R IN
Q3503
L AMP
Q3504
R AMP
JK3304
COMPONENT
/RGB
Y
PB
PR
H
V
R/PR
G/Y
B/PB
H/HV
V
Q3505,3506
HD AMP
Q3501,3502
VD AMP

TH-42PHD6/TH-42PHW6
HY-BOARD Block Diagram


H0
SDA
SCL
SRQ
STB5V
IC3101
REG
2.5V
IC3302
REG
2.5V
IC3303
PLL 2.5V
2.5V REG
STB5V
H1
TO J11
SRQ
3.3V
5V
9V
IC3301
REG
3.3V
IC3104
RESET
OUT
IC3201
FOR NTSC 3D COMB FILTER
5M FIFO
MEMORY CONTROLLER
03
M
IC3251
LVDS TRANSMITTER
TTL PARALLEL TO LVDS
R07
R00
G07
G00
B07
B00
HS
VS
CLK IN
PLL
CLKSEL
/PDWN
TX0+
TX0-
TX1+
TX1-
TX2+
TX2-
TX3+
TX3-
TXC+
TXC-
AV
Adaptive Comb Filter
NTSC PAL
Color Decoder
NTSC PAL SECAM
Saturation Tint
Mixer
2DScalar PIP Panorama Contast Brightness Peaking
Output Formatter
IIC Bus
Clock Gen.
SDA
SCL
Sync + Clock Generation
H Sync
V Sync
LL Clock
X3101
IC3305
DAC ICC EXPANDER
HFP
Y-SEL
S-SEL
S-DET
SCL
SDA
/POWN
CLK SEL
S DET
IC3311
5V<=>3.3V
IC3105
5V<=>3.3V
IC3699
EEPROM
SCL2
SDA2
L
R
S2 DET
H2
TO J12
AUDIO L
AUDIO R
COMPONENT /RGB
Y
PB
PR
HD
VD

TH-42PHD6/TH-42PHW6
HY-BOARD Block Diagram

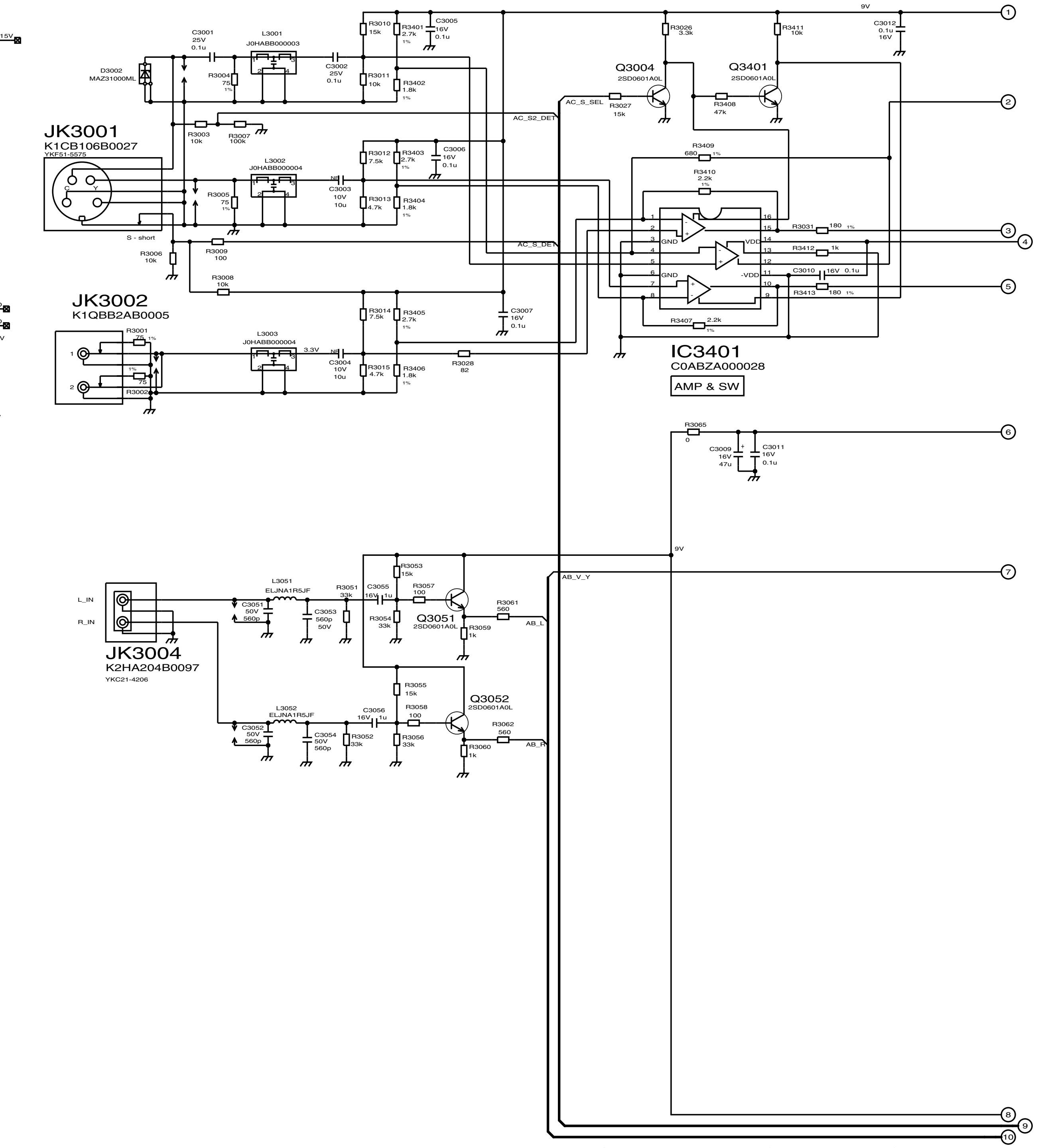
14.14. HY-Board (1 of 3) Schematic Diagram



HY-BOARD TXNHY10QBS (1/3)

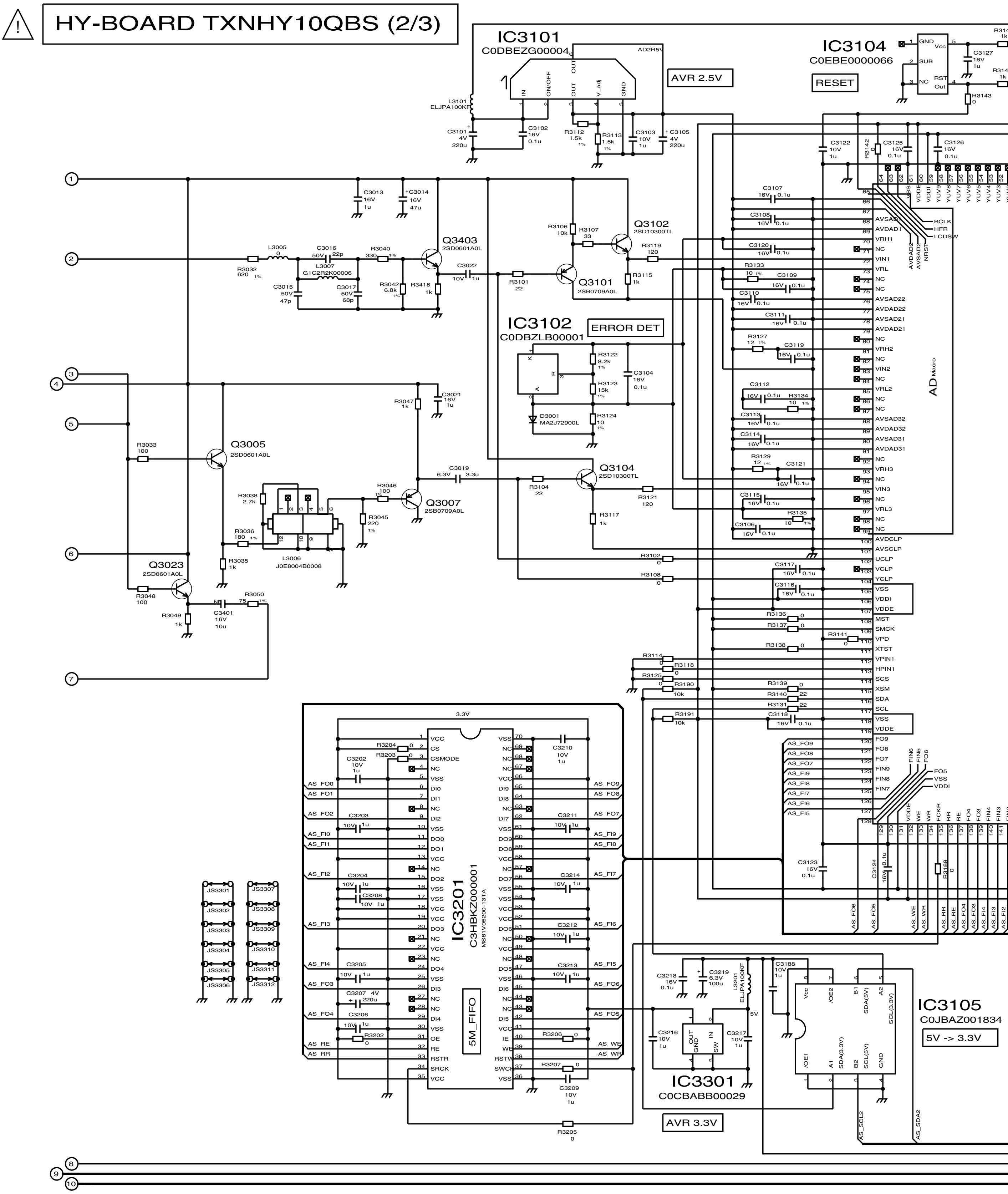
TH-42PHD6/TH-42PHW6
HY-BOARD (1 of 3) Schematic Diagram

A
B
C
D
E
1
2
3
4
JK3304
K1QBB5AB0005
Y
PB
PR
H
V
R/PR
G/Y
B/PB
H/HV
L3527
J0HABB000004
L3528
J0HABB000004
L3529
J0HABB000004
L3530
J0HABB000003
L3531
J0HABB000003
R3506
4.7k
R3507
4.7k
JS3501
JS3502
JS3503
C3507
6.3V
10u
R3516
100
C3508
10u
6.3V
R3517
100
Q3501
2SD0601A0L
Q3502
2SB0709A0L
Q3505
2SD0601A0L
Q3506
2SB0709A0L
R3521
4.7k
R3522
4.7k
R3531
3.3
R3532
3.3
R3544
4.7k
R3545
4.7k
R3546
3.3
R3547
3.3
D3351
MA3X15300L
D3352
MA3X15300L
AD_VD_2
AD_HD_2
9V
C3521
16V
0.1u
C3523
16V
47u
L3533
ELJPA100KF
JK3303
K2HA204B0097
L3525
J0HABB000003
L3526
J0HABB000003
R3501
180k
R3502
180k
R3514
100
R3515
100
C3510
16V
1u
C3511
16V
1u
Q3503
2SD0601A0L
Q3504
2SD0601A0L
R3527
10k
R3528
10k
R3529
100
R3535
1k
R3538
100
R3525
10k
R3526
10k
R3530
100
R3536
1k
R3539
100
C3520
16V
47u
L3532
ELJPA100KF
C3524
0.1u
16V
AA_Ls_2
AA_Rs_2
JS3506
JS3507
JS3508
LAN15V
S2_DET
RESET1
RESET2
PWR_STAT
SOS
REMOTE
CABEL_DET
PLUG_DET
TXD
RXD
TS3004
TS3005
AUD_R
AUD_L
SRQ
STB5V
C3525
16V
0.1u
C3526
16V
0.1u
C3527
6.3V
6.8u
3.3V
HD
VD
RSVD
STV5V
H2
TO
J-BOARD
(J12)
D3002
MAZ3100
JK3001
K1CB106B00
YKF51-5575
JK30
K1QBB2
L_IN
R_IN
K2
YKC


JK3001
K1CB106B0027
YKF51-5575
JK3002
K1QBB2AB0005
JK3004
K2HA204B0097
YKC21-4206
L_IN
R_IN
D3002
MAZ31000ML
C3001 25V 0.1u
L3001 J0HABB000003
C3002 25V 0.1u
R3004 75 1%
R3003 10k
R3007 100k
L3002 J0HABB000004
R3005 75 1%
C3003 10V 10u
S - short
R3006 10k
R3009 100
R3008 10k
R3001 75 1%
R3002 75 1%
L3003 J0HABB000004
3.3V
C3004 10V 10u
R3010 15k
R3401 2.7k 1%
C3005 16V 0.1u
R3011 10k
R3402 1.8k 1%
R3012 7.5k
R3403 2.7k 1%
C3006 16V 0.1u
R3013 4.7k
R3404 1.8k 1%
R3014 7.5k
R3405 2.7k 1%
C3007 16V 0.1u
R3015 4.7k
R3406 1.8k 1%
R3028 82
AC_S2_DET
AC_S_DET
AC_S_SEL
R3027 15k
Q3004 2SD0601A0L
R3026 3.3k
Q3401 2SD0601A0L
R3411 10k
R3408 47k
9V
C3012 0.1u 16V
R3409 680 1%
R3410 2.2k 1%
GND
VDD
-VDD
R3031 180 1%
R3412 1k
C3010 16V 0.1u
R3413 180 1%
R3407 2.2k 1%
IC3401
C0ABZA000028
AMP & SW
R3065 0
C3009 16V 47u
C3011 16V 0.1u
9V
AB_V_Y
L3051 ELJNA1R5JF
C3051 50V 560p
C3053 560p 50V
R3051 33k
C3055 16V 1u
R3053 15k
R3057 100
R3054 33k
Q3051 2SD0601A0L
R3059 1k
R3061 560
AB_L
L3052 ELJNA1R5JF
C3052 50V 560p
C3054 50V 560p
R3052 33k
C3056 16V 1u
R3055 15k
R3058 100
R3056 33k
Q3052 2SD0601A0L
R3060 1k
R3062 560
AB_R
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
5
6
7
8

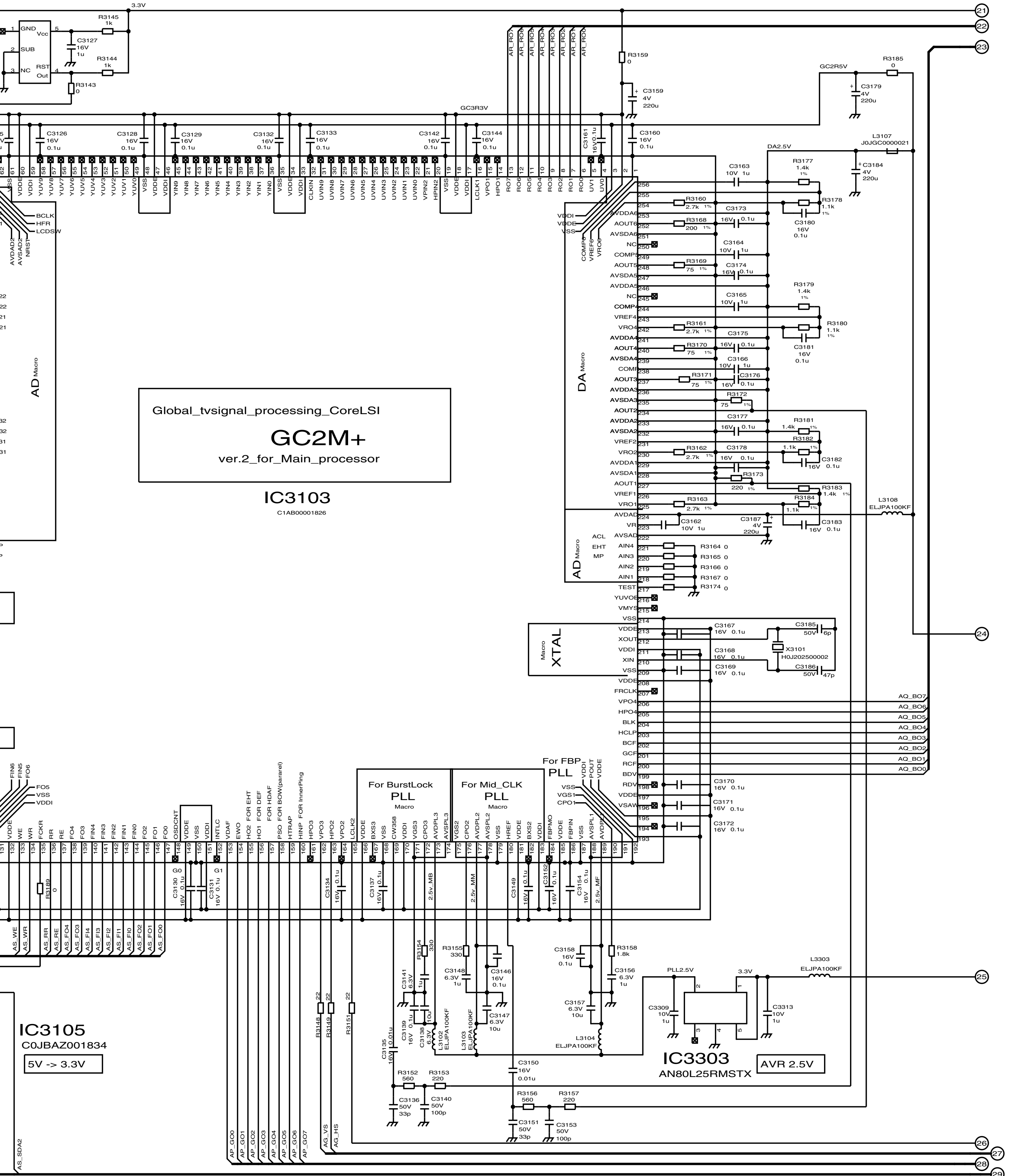
TH-42PHD6/TH-42PHW6 HY-BOARD (1 of 3) Schematic Diagram

14.15. HY-Board (2 of 3) Schematic Diagram

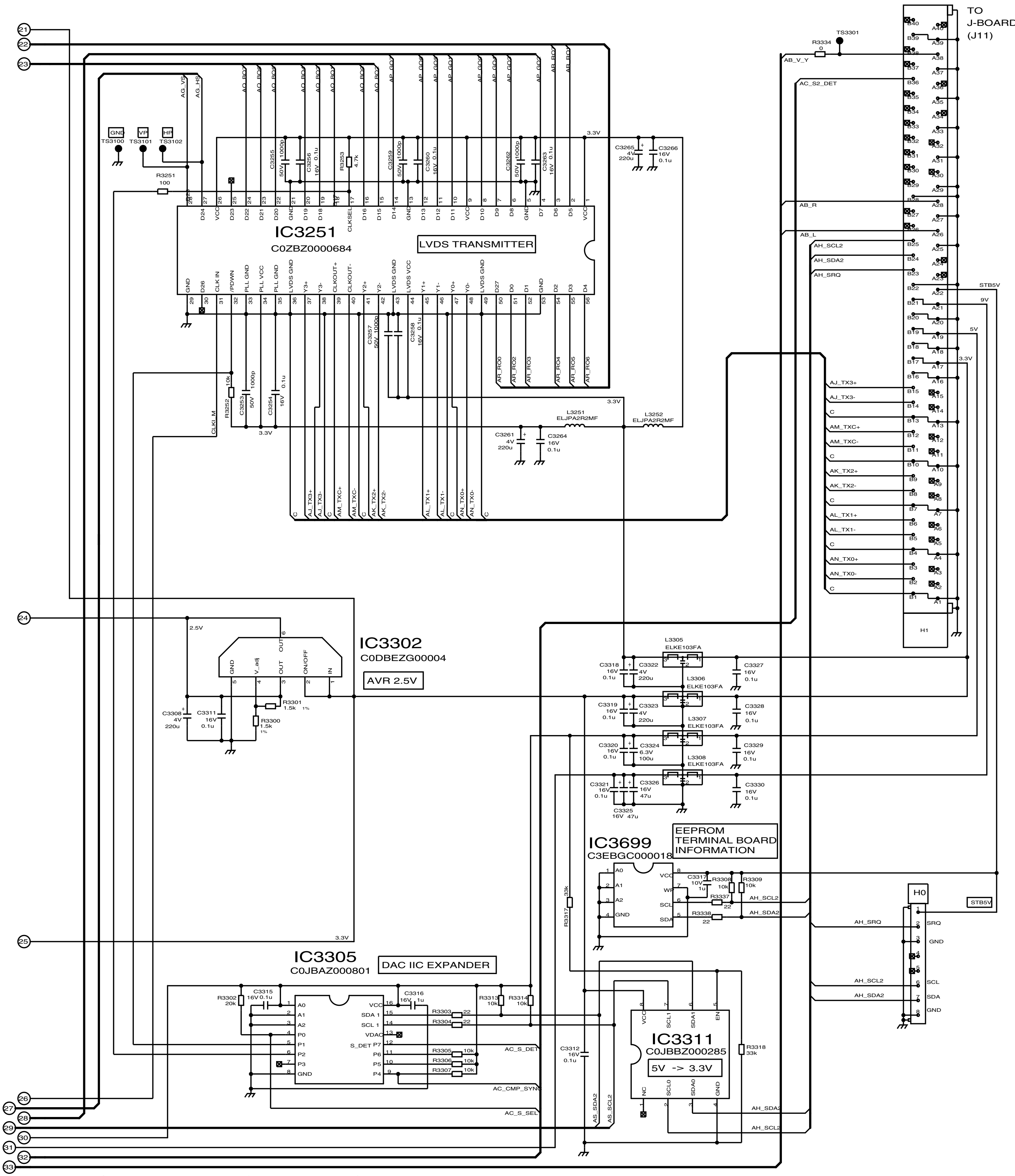

HY-BOARD TXNHY10QBS (2/3)
IC3101
C0DBEZG00004
AVR 2.5V
IC3104
C0EBE0000066
RESET
IC3102
C0DBZLB00001
ERROR DET
Q3403
2SD0601A0L
Q3102
2SD1030OTL
Q3101
2SB0709A0L
Q3104
2SD1030OTL
Q3005
2SD0601A0L
Q3007
2SB0709A0L
Q3023
2SD0601A0L
D3001
MA2J72900L
L3101
ELJPA100KF
L3005
L3007
G1C2R2K00006
L3006
J0E8004B0008
AD Macro
IC3201
C3HBKZ000001
MS81V05200-13TA
5M_FIFO
3.3V
IC3105
C0JBAZ001834
5V -> 3.3V
IC3301
C0CBABB00029
AVR 3.3V
L3201
ELJPA100KF
JS3301
JS3302
JS3303
JS3304
JS3305
JS3306
JS3307
JS3308
JS3309
JS3310
JS3311
JS3312
AS_FO0
AS_FO1
AS_FO2
AS_FO3
AS_FO4
AS_FO5
AS_FO6
AS_FO7
AS_FO8
AS_FO9
AS_FI0
AS_FI1
AS_FI2
AS_FI3
AS_FI4
AS_FI5
AS_FI6
AS_FI7
AS_FI8
AS_FI9
AS_RE
AS_RR
AS_WE
AS_WR
AS_SCL2
AS_SDA2
1
2
3
4
5
6
7
8
9
10

TH-42PHD6/TH-42PHW6 HY-BOARD (2 of 3) Schematic Diagram

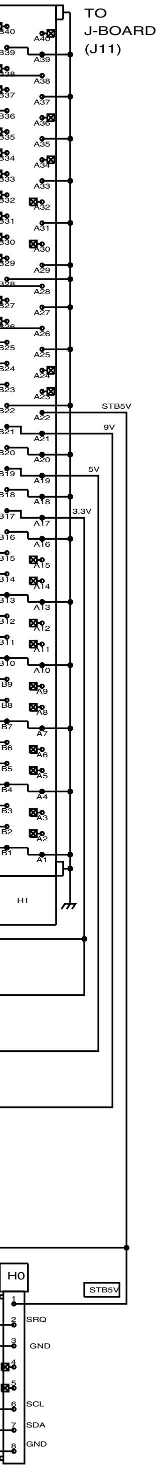
8 9 10 11 12


Global_tvsignal_processing_CoreLSI
GC2M+
ver.2_for_Main_processor
IC3103
C1AB00001826
IC3105
C0JBAZ001834
5V -> 3.3V
IC3303
AN80L25RMSTX
AVR 2.5V
AD Macro
DA Macro
XTAL Macro
For BurstLock PLL Macro
For Mid_CLK PLL Macro
For FBP PLL
3.3V
GC3R3V
GC2R5V
DA2.5V
PLL2.5V
X3101
H0J202500002
L3107
J0JGC0000021
L3108
ELJPA100KF
L3303
ELJPA100KF
21
22
23
24
25
26
27
28
29
30
31
32
33

14.16. HY-Board (3 of 3) Schematic Diagram

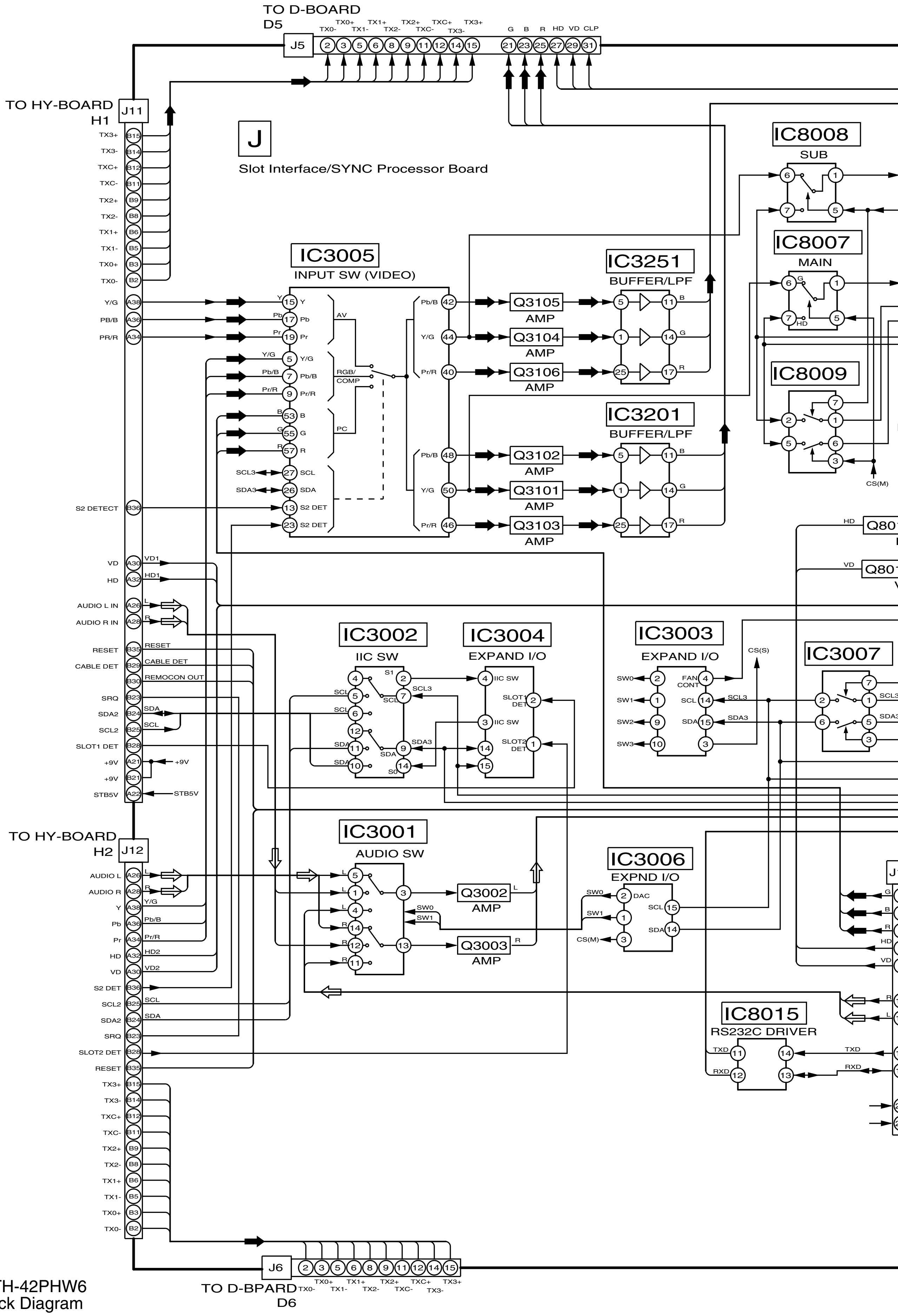

IC3251
C0ZBZ0000684
LVDS TRANSMITTER
IC3302
C0DBEZG00004
AVR 2.5V
IC3305
C0JBAZ000801
DAC IIC EXPANDER
IC3699
C3EBGC000018
EEPROM
TERMINAL BOARD
INFORMATION
IC3311
C0JBBZ000285
5V -> 3.3V
TO
J-BOARD
(J11)
H1
H0
TS3100
TS3101
TS3102
GND
VP
HP
TS3301
R3334
0
AB_V_Y
AC_S2_DET
AB_R
AB_L
AH_SCL2
AH_SDA2
AH_SRQ
STB5V
9V
5V
3.3V
2.5V
AJ_TX3+
AJ_TX3-
AM_TXC+
AM_TXC-
AK_TX2+
AK_TX2-
AL_TX1+
AL_TX1-
AN_TX0+
AN_TX0-
AG_VS
AG_HS
AQ_BO
AP_GO
AR_RO
AR_RO0
AR_RO2
AR_RO3
AR_RO4
AR_RO5
AR_RO6
CLKI_M
L3251
ELJPA2R2MF
L3252
ELJPA2R2MF
L3305
L3306
L3307
L3308
ELKE103FA
AC_S_DET
AC_CMP_SYNC
AC_S_SEL
AS_SDA2
AS_SCL2
SRQ
GND
SCL
SDA
16
17
18
19

TH-42PHD6/TH-42PHW6 HY-BOARD (3 of 3) Schematic Diagram

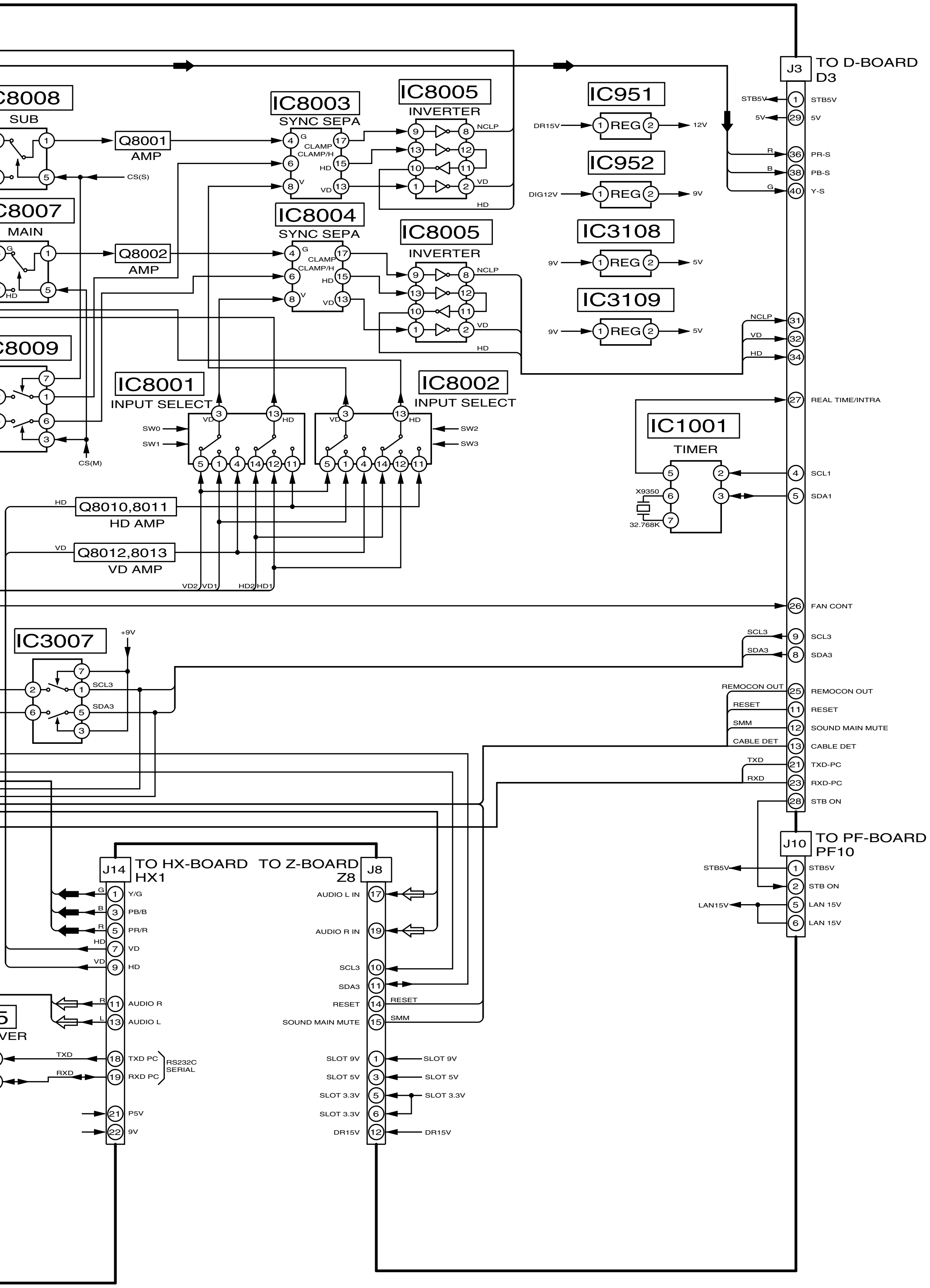

TO
J-BOARD
(J11)
B40
A40
B39
A39
B38
A38
B37
A37
B36
A36
B35
A35
B34
A34
B33
A33
B32
A32
B31
A31
B30
A30
B29
A29
B28
A28
B27
A27
B26
A26
B25
A25
B24
A24
B23
A23
B22
A22
STB5V
B21
A21
9V
B20
A20
B19
A19
5V
B18
A18
B17
A17
3.3V
B16
A16
B15
A15
B14
A14
B13
A13
B12
A12
B11
A11
B10
A10
B9
A9
B8
A8
B7
A7
B6
A6
B5
A5
B4
A4
B3
A3
B2
A2
B1
A1
H1
H0
STB5V
1
2 SRQ
3 GND
4
5
6 SCL
7 SDA
8 GND

HY-BOARD TXNHY10QBS (3/3)

14.17. J-Board Block Diagram


TO D-BOARD D5
J5
TX0+ TX1+ TX2+ TXC+ TX3+
TX0- TX1- TX2- TXC- TX3-
G B R HD VD CLP
TO HY-BOARD H1
J11
J
Slot Interface/SYNC Processor Board
TX3+ TX3- TXC+ TXC- TX2+ TX2- TX1+ TX1- TX0+ TX0-
Y/G PB/B PR/R
S2 DETECT
VD HD
AUDIO L IN
AUDIO R IN
RESET
CABLE DET
REMOCON OUT
SRQ
SDA2
SCL2
SLOT1 DET
+9V
STB5V
IC3005
INPUT SW (VIDEO)
AV
RGB/COMP
PC
SCL3
SDA3
S2 DET
IC3251
BUFFER/LPF
IC3201
BUFFER/LPF
Q3105 AMP
Q3104 AMP
Q3106 AMP
Q3102 AMP
Q3101 AMP
Q3103 AMP
IC8008
SUB
IC8007
MAIN
IC8009
CS(M)
Q80
IC3002
IIC SW
IC3004
EXPAND I/O
IIC SW
SLOT1 DET
SLOT2 DET
IC3003
EXPAND I/O
FAN CONT
SW0 SW1 SW2 SW3
SCL3 SDA3
CS(S)
IC3007
IC3001
AUDIO SW
Q3002 AMP
Q3003 AMP
SW0 SW1
IC3006
EXPND I/O
DAC
CS(M)
IC8015
RS232C DRIVER
TXD RXD
TO HY-BOARD H2
J12
AUDIO L
AUDIO R
Y Pb Pr HD VD
S2 DET
SCL2 SDA2 SRQ
SLOT2 DET
RESET
J6
TO D-BPARD D6

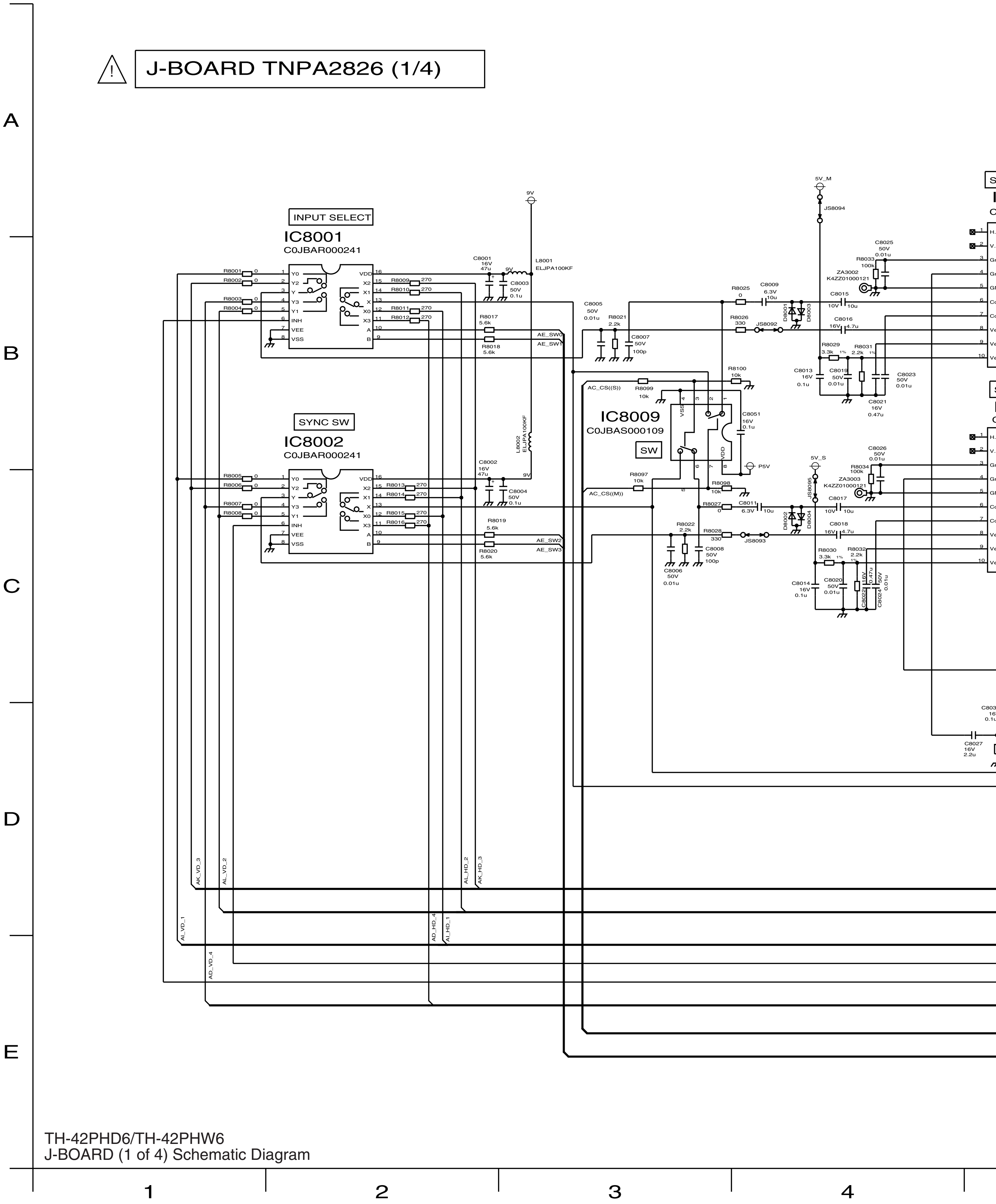
TH-42PHD6/TH-42PHW6
J-BOARD Block Diagram



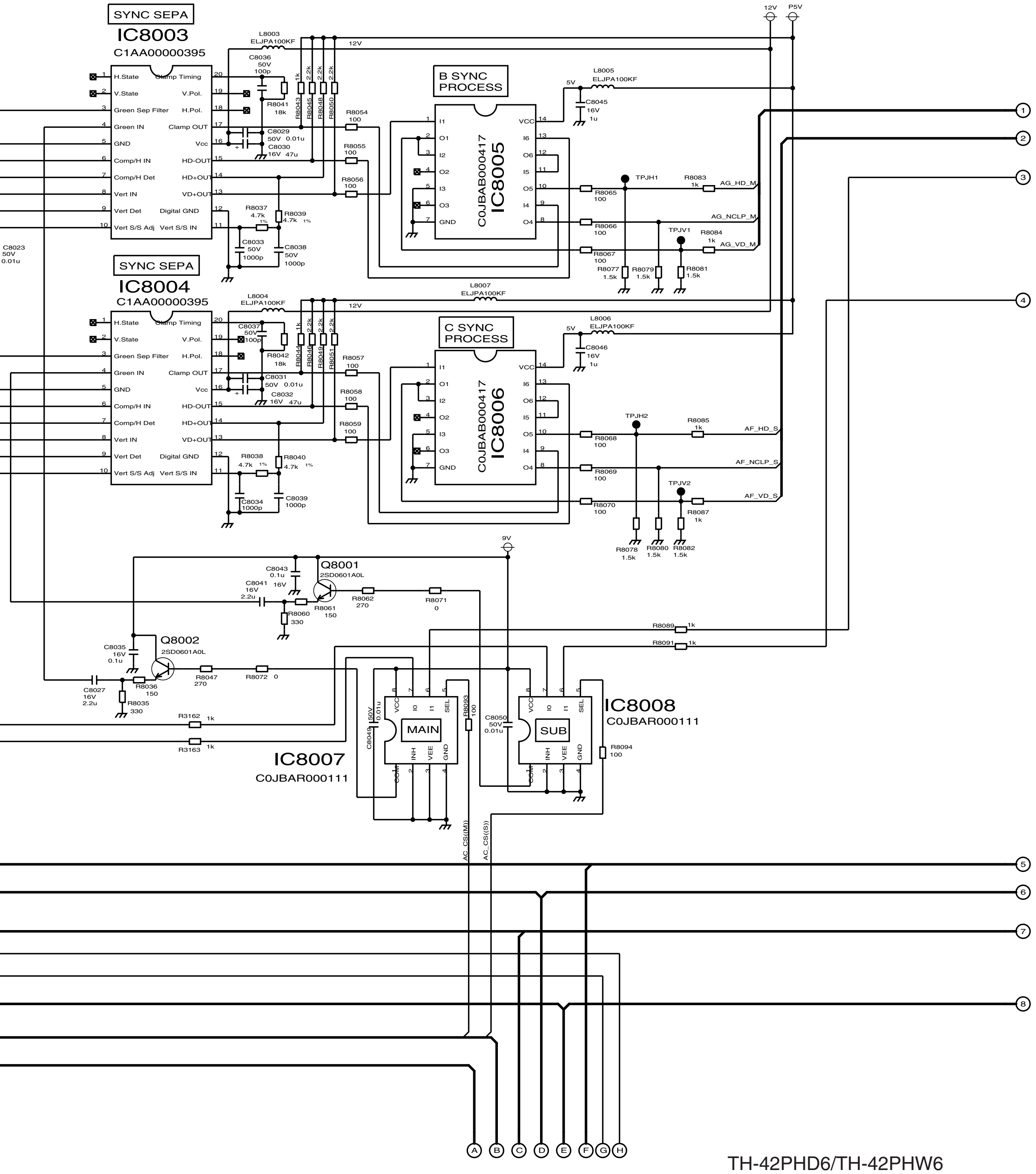
C8008
SUB
IC8003
SYNC SEPA
IC8005
INVERTER
IC951
REG
DR15V
12V
IC952
DIG12V
9V
J3
TO D-BOARD
D3
STB5V
5V
R
B
G
PR-S
PB-S
Y-S
Q8001
AMP
CS(S)
CLAMP
CLAMP/H
HD
VD
V
NCLP
C8007
MAIN
Q8002
AMP
IC8004
SYNC SEPA
IC8005
INVERTER
IC3108
REG
9V
5V
IC3109
C8009
NCLP
VD
HD
IC8001
INPUT SELECT
IC8002
INPUT SELECT
SW0
SW1
SW2
SW3
CS(M)
REAL TIME/INTRA
IC1001
TIMER
X9350
32.768K
SCL1
SDA1
Q8010,8011
HD AMP
Q8012,8013
VD AMP
VD2
VD1
HD2
HD1
FAN CONT
IC3007
+9V
SCL3
SDA3
REMOCON OUT
RESET
SMM
SOUND MAIN MUTE
CABLE DET
TXD
RXD
TXD-PC
RXD-PC
STB ON
J10
TO PF-BOARD
PF10
STB5V
STB ON
LAN15V
LAN 15V
J14
TO HX-BOARD
HX1
TO Z-BOARD
Z8
J8
Y/G
PB/B
PR/R
VD
HD
AUDIO R
AUDIO L
TXD PC
RXD PC
RS232C
SERIAL
P5V
9V
AUDIO L IN
AUDIO R IN
SCL3
SDA3
RESET
SOUND MAIN MUTE
SLOT 9V
SLOT 5V
SLOT 3.3V
DR15V
5
VER

TH-42PHD6/TH-42PHW6
J-BOARD Block Diagram

14.18. J-Board (1 of 4) Schematic Diagram


J-BOARD TNPA2826 (1/4)
A
B
C
D
E
1
2
3
4
INPUT SELECT
IC8001
C0JBAR000241
SYNC SW
IC8002
C0JBAR000241
IC8009
C0JBAS000109
SW
9V
5V_M
5V_S
P5V
L8001
ELJPA100KF
L8002
ELJPA100KF
C8001 16V 47u
C8002 16V 47u
C8003 50V 0.1u
C8004 50V 0.1u
C8005 50V 0.01u
C8006 50V 0.01u
C8007 50V 100p
C8008 50V 100p
C8009 6.3V 10u
C8011 6.3V 10u
C8013 16V 0.1u
C8014 16V 0.1u
C8015 10V 10u
C8016 16V 4.7u
C8017 10V 10u
C8018 16V 4.7u
C8019 50V 0.01u
C8020 50V 0.01u
C8021 16V 0.47u
C8022 16V 0.47u
C8023 50V 0.01u
C8024 50V 0.01u
C8025 50V 0.01u
C8026 50V 0.01u
C8027 16V 2.2u
C8051 16V 0.1u
R8001 0
R8002 0
R8003 0
R8004 0
R8005 0
R8006 0
R8007 0
R8008 0
R8009 270
R8010 270
R8011 270
R8012 270
R8013 270
R8014 270
R8015 270
R8016 270
R8017 5.6k
R8018 5.6k
R8019 5.6k
R8020 5.6k
R8021 2.2k
R8022 2.2k
R8025 0
R8026 330
R8027 0
R8028 330
R8029 3.3k 1%
R8030 3.3k 1%
R8031 2.2k 1%
R8032 2.2k 1%
R8033 100k
R8034 100k
R8097 10k
R8098 10k
R8099 10k
R8100 10k
ZA3002 K4ZZ01000121
ZA3003 K4ZZ01000121
JS8092
JS8093
JS8094
JS8095
D8001
D8002
D8003
D8004
Y0
Y2
Y
Y3
Y1
INH
VEE
VSS
VDD
X2
X1
X
X0
X3
A
B
VDD
AE_SW0
AE_SW1
AE_SW2
AE_SW3
AC_CS((S))
AC_CS((M))
AK_VD_3
AL_VD_2
AL_HD_2
AK_HD_3
AI_VD_1
AD_HD_4
AI_HD_1
AD_VD_4

TH-42PHD6/TH-42PHW6
J-BOARD (1 of 4) Schematic Diagram

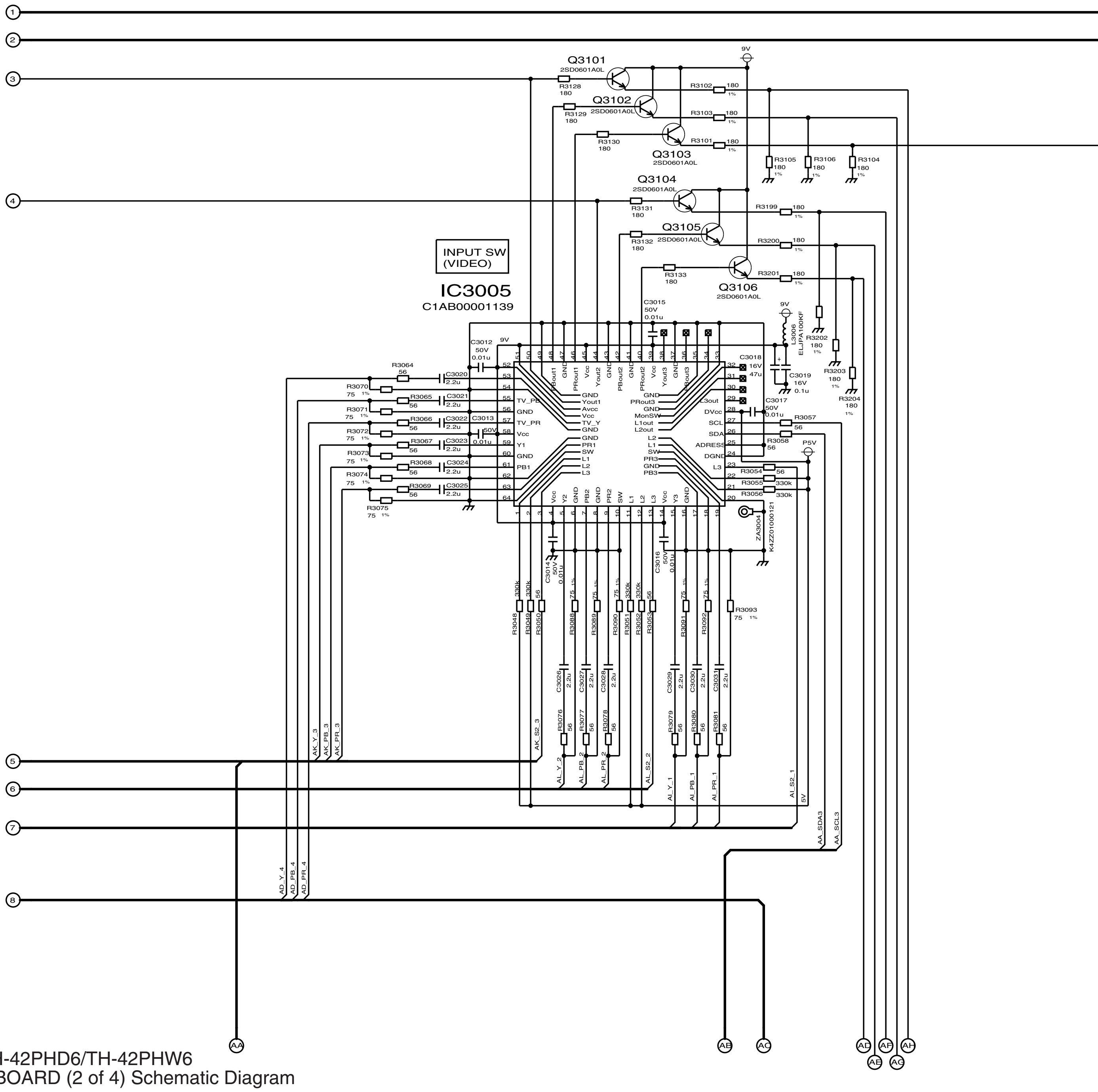

SYNC SEPA
IC8003
C1AA00000395
H.State
V.State
Green Sep Filter
Green IN
GND
Comp/H IN
Comp/H Det
Vert IN
Vert Det
Vert S/S Adj
Clamp Timing
V.Pol.
H.Pol.
Clamp OUT
Vcc
HD-OUT
HD+OUT
VD+OUT
Digital GND
Vert S/S IN
L8003
ELJPA100KF
12V
C8036 50V 100p
R8041 18k
R8043 1k
R8045 2.2k
R8048 2.2k
R8050 2.2k
C8029 50V 0.01u
C8030 16V 47u
R8054 100
R8055 100
R8056 100
R8037 4.7k 1%
R8039 4.7k 1%
C8033 50V 1000p
C8038 50V 1000p
C8023 50V 0.01u
B SYNC PROCESS
IC8005
C0JBAB000417
I1
O1
I2
O2
I3
O3
GND
VCC
I6
O6
I5
O5
I4
O4
L8005
ELJPA100KF
5V
C8045 16V 1u
TPJH1
R8083 1k
AG_HD_M
AG_NCLP_M
TPJV1
R8084 1k
AG_VD_M
R8065 100
R8066 100
R8067 100
R8077 1.5k
R8079 1.5k
R8081 1.5k
12V
P5V
L8007
ELJPA100KF
SYNC SEPA
IC8004
C1AA00000395
L8004
ELJPA100KF
C8037 50V 100p
R8042 18k
R8044 1k
R8046 2.2k
R8049 2.2k
R8051 2.2k
C8031 50V 0.01u
C8032 16V 47u
R8057 100
R8058 100
R8059 100
R8038 4.7k 1%
R8040 4.7k 1%
C8034 1000p
C8039 1000p
C PROCESS SYNC
C SYNC PROCESS
IC8006
C0JBAB000417
L8006
ELJPA100KF
C8046 16V 1u
TPJH2
R8085 1k
AF_HD_S
AF_NCLP_S
TPJV2
R8087 1k
AF_VD_S
R8068 100
R8069 100
R8070 100
R8078 1.5k
R8080 1.5k
R8082 1.5k
9V
Q8001
2SD0601A0L
C8043 0.1u 16V
C8041 16V 2.2u
R8060 330
R8061 150
R8062 270
R8071 0
Q8002
2SD0601A0L
C8035 16V 0.1u
C8027 16V 2.2u
R8036 150
R8035 330
R8047 270
R8072 0
R3162 1k
R3163 1k
R8089 1k
R8091 1k
IC8007
C0JBAR000111
MAIN
VCC
I0
I1
SEL
COM
INH
VEE
GND
C8049 50V 0.01u
R8093 100
C8050 50V 0.01u
IC8008
C0JBAR000111
SUB
R8094 100
AC_CS(M)
AC_CS(S)
①
②
③
④
⑤
⑥
⑦
⑧
Ⓐ
Ⓑ
Ⓒ
Ⓓ
Ⓔ
Ⓕ
Ⓖ
Ⓗ

TH-42PHD6/TH-42PHW6
J-BOARD (1 of 4) Schematic Diagram

5 6 7 8

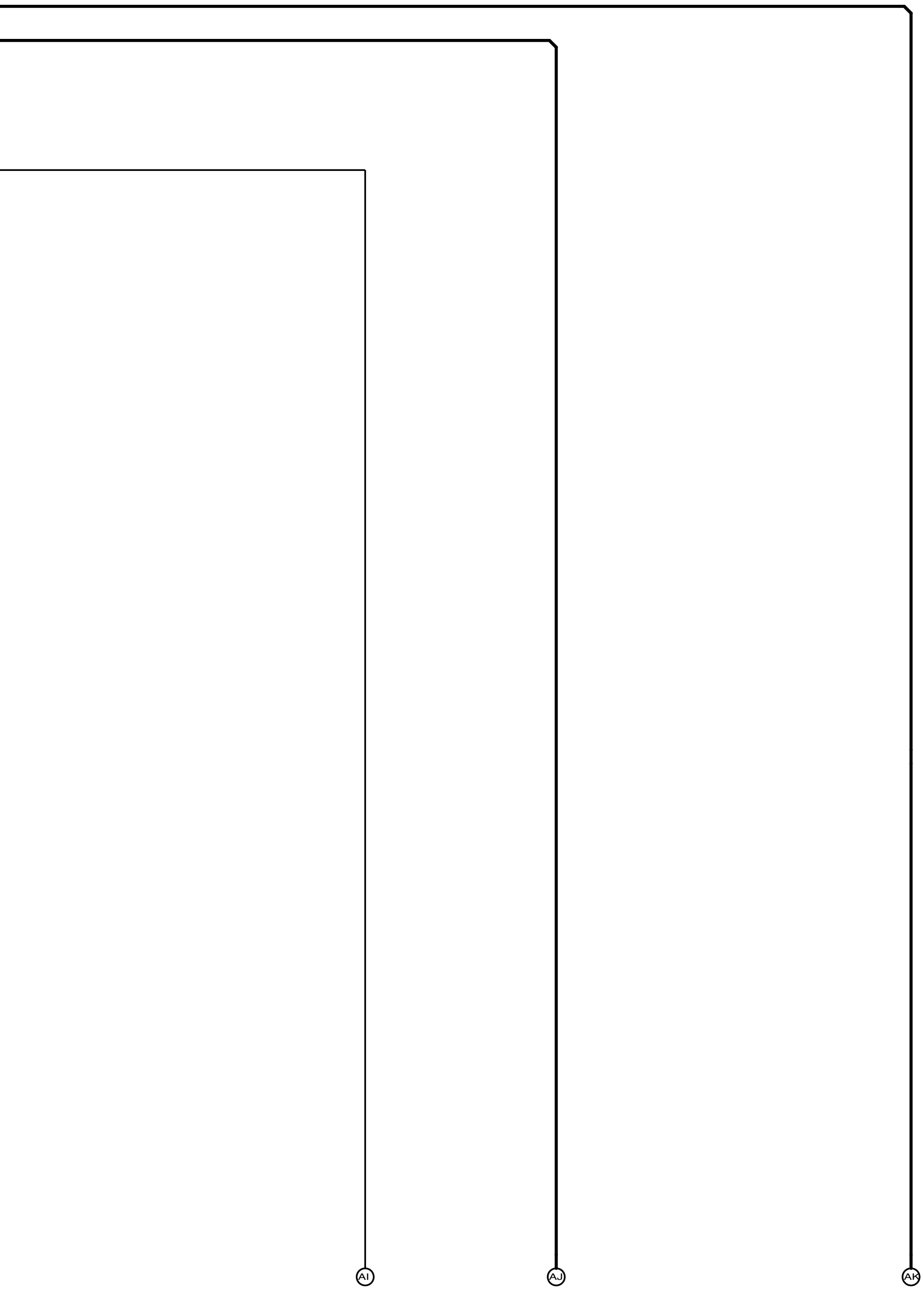
14.19. J-Board (2 of 4) Schematic Diagram

⚠ J-BOARD TNPA2826 (2/4)


1
2
3
4
5
6
7
8
Q3101
2SD0601A0L
R3128
180
Q3102
2SD0601A0L
R3129
180
R3130
180
Q3103
2SD0601A0L
Q3104
2SD0601A0L
R3131
180
Q3105
2SD0601A0L
R3132
180
R3133
180
Q3106
2SD0601A0L
9V
R3102 180 1%
R3103 180 1%
R3101 180 1%
R3105 180 1%
R3106 180 1%
R3104 180 1%
R3199 180 1%
R3200 180 1%
R3201 180 1%
R3202 180 1%
R3203 180 1%
R3204 180 1%
L3006
ELJPA100KF
INPUT SW
(VIDEO)
IC3005
C1AB00001139
C3015 50V 0.01u
C3012 50V 0.01u
C3018 16V 47u
C3019 16V 0.1u
C3017 50V 0.01u
R3057 56
R3058 56
P5V
R3054 56
R3055 330k
R3056 330k
ZA3004
K4ZZ01000121
R3064 56
C3020 2.2u
R3070 75 1%
R3065 56
C3021 2.2u
R3071 75 1%
R3066 56
C3022 2.2u
C3013 50V 0.01u
R3072 75 1%
R3067 56
C3023 2.2u
R3073 75 1%
R3068 56
C3024 2.2u
R3074 75 1%
R3069 56
C3025 2.2u
R3075 75 1%
TV_PB
GND
TV_PR
Vcc
Y1
GND
PB1
GND
Yout1
Avcc
Vcc
TV_Y
GND
PR1
SW
L1
L2
L3
GND
PRout3
GND
MonSW
L1out
L2out
L2
L1
SW
PR3
GND
PB3
L3out
DVcc
SCL
SDA
ADRESS
DGND
L3
PRout1
GND
PRout1
Vcc
Yout2
GND
PBout2
GND
PRout2
Vcc
Yout3
GND
PBout3
Vcc
Y2
GND
PB2
GND
PR2
SW
L1
L2
L3
Vcc
Y3
GND
C3014 50V 0.01u
C3016 50V 0.01u
R3048 330k
R3049 330k
R3050 56
R3088 75 1%
R3089 75 1%
R3090 75 1%
R3051 330k
R3052 330k
R3053 56
R3091 75 1%
R3092 75 1%
R3093 75 1%
C3026 2.2u
C3027 2.2u
C3028 2.2u
C3029 2.2u
C3030 2.2u
C3031 2.2u
R3076 56
R3077 56
R3078 56
R3079 56
R3080 56
R3081 56
AK_Y_3
AK_PB_3
AK_PR_3
AK_S2_3
AL_Y_2
AL_PB_2
AL_PR_2
AL_S2_2
AI_Y_1
AI_PB_1
AI_PR_1
AI_S2_1
5V
AA_SDA3
AA_SCL3
AD_Y_4
AD_PB_4
AD_PR_4
AA
AB
AC
AD
AE
AF
AG
AH

TH-42PHD6/TH-42PHW6
J-BOARD (2 of 4) Schematic Diagram

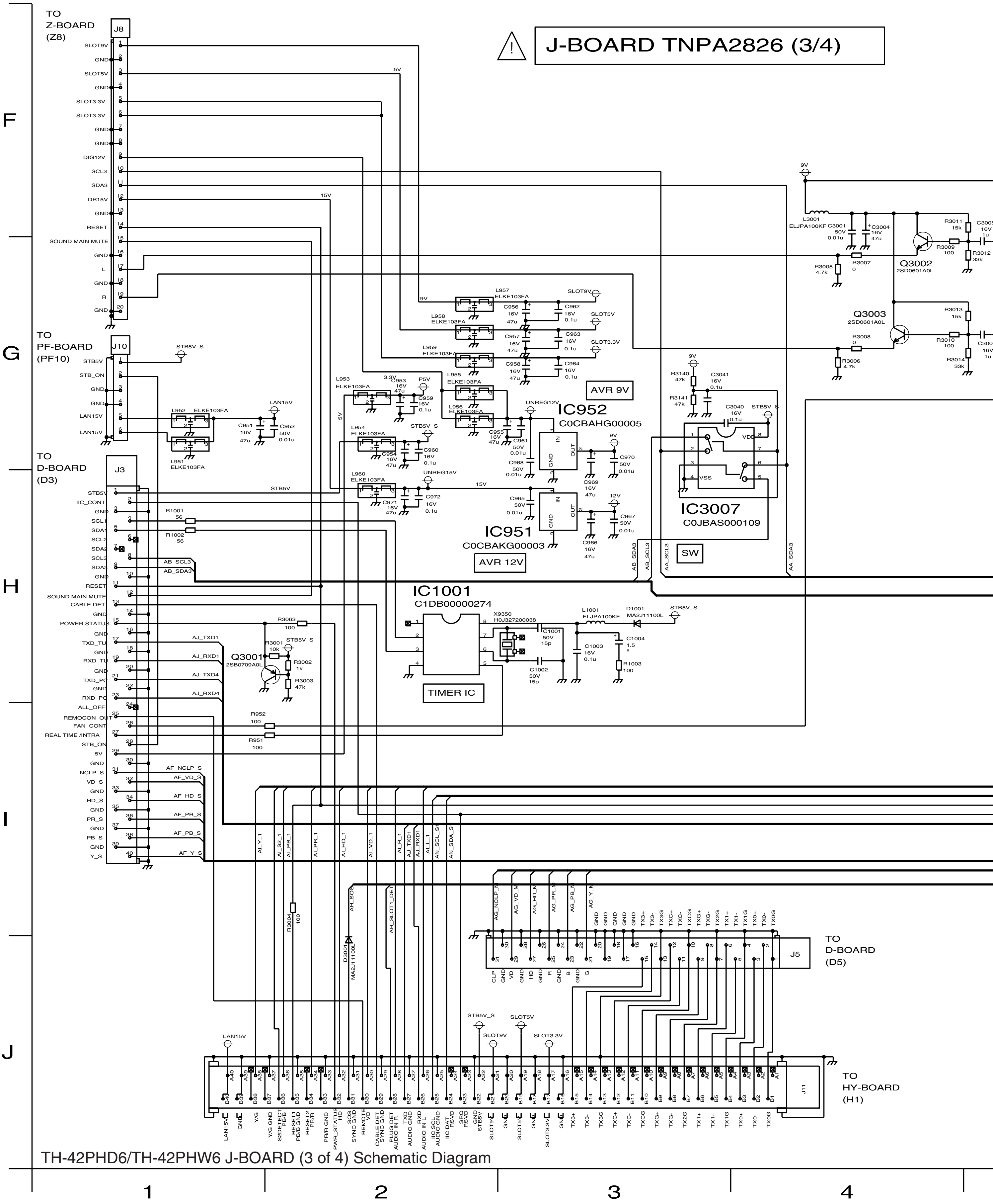
8 9 10 11 12


AI
AJ
AK

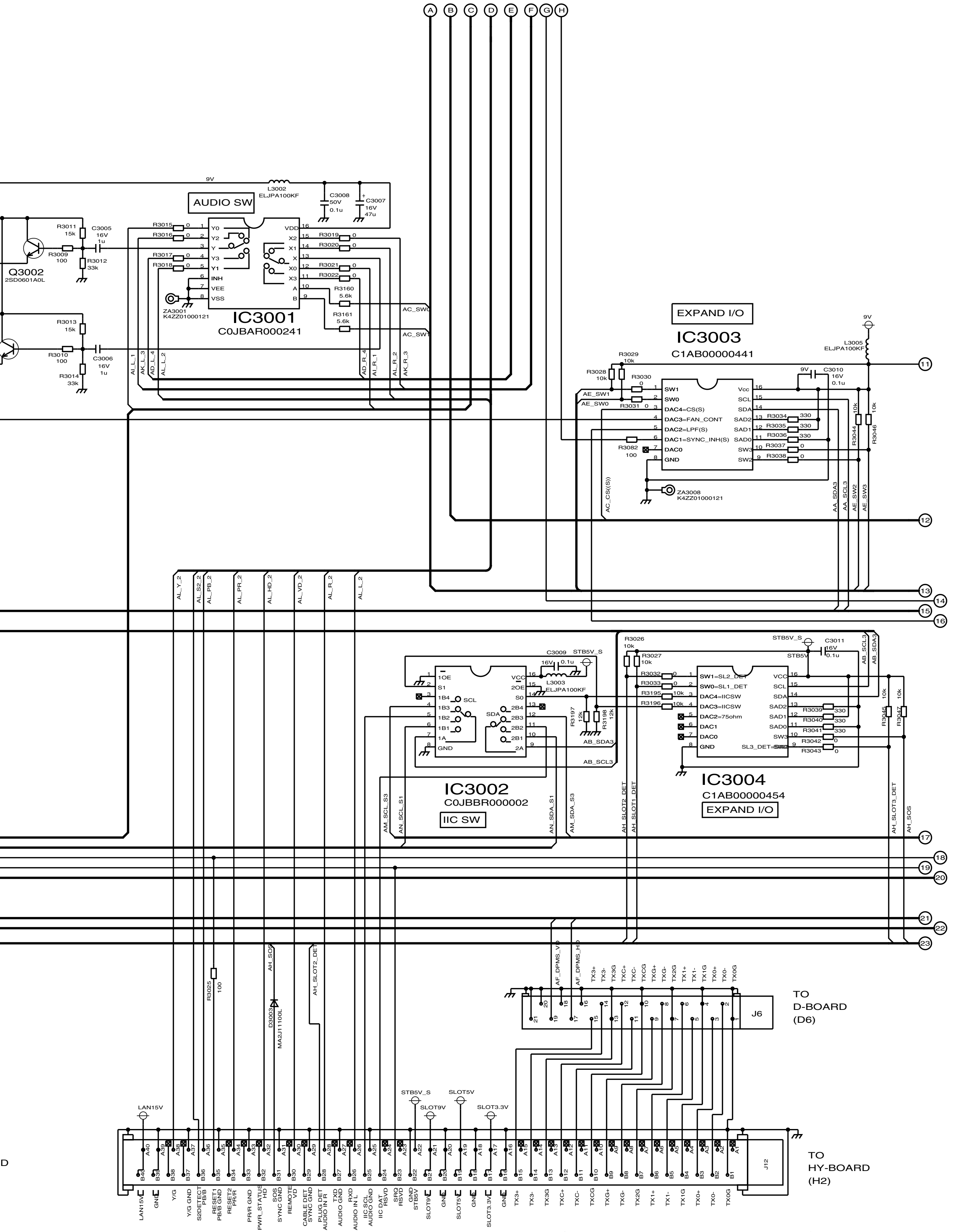
TH-42PHD6/TH-42PHW6
J-BOARD (2 of 4) Schematic Diagram

12
13
14
15

14.20. J-Board (3 of 4) Schematic Diagram


J-BOARD TNPA2826 (3/4)
TO Z-BOARD (Z8)
J8
SLOT9V
GND
SLOT5V
SLOT3.3V
DIG12V
SCL3
SDA3
DR15V
RESET
SOUND MAIN MUTE
L
R
TO PF-BOARD (PF10)
J10
STB5V
STB_ON
LAN15V
STB5V_S
TO D-BOARD (D3)
J3
IIC_CONT
SCL1
SDA1
SCL2
SDA2
CABLE DET
POWER STATUS
TXD_TU
RXD_TU
TXD_PC
RXD_PC
ALL_OFF
REMOCON_OUT
FAN_CONT
REAL TIME /INTRA
NCLP_S
VD_S
HD_S
PR_S
PB_S
Y_S
L952 ELKE103FA
L951 ELKE103FA
C951 16V 47u
C952 50V 0.01u
L957 ELKE103FA
L958 ELKE103FA
L959 ELKE103FA
L953 ELKE103FA
L954 ELKE103FA
L955 ELKE103FA
L956 ELKE103FA
L960 ELKE103FA
AVR 9V
IC952
C0CBAHG00005
IC951
C0CBAKG00003
AVR 12V
UNREG12V
UNREG15V
IC3007
C0JBAS000109
SW
IC1001
C1DB00000274
TIMER IC
X9350 H0J327200038
L1001 ELJPA100KF
D1001 MA2J11100L
Q3001 2SB0709A0L
Q3002 2SD0601A0L
Q3003 2SD0601A0L
L3001 ELJPA100KF
R1001 56
R1002 56
R3063 100
R3001 10k
R3002 1k
R3003 47k
R952 100
R951 100
AB_SCL3
AB_SDA3
AA_SDA3
AA_SCL3
AJ_TXD1
AJ_RXD1
AJ_TXD4
AJ_RXD4
AF_NCLP_S
AF_VD_S
AF_HD_S
AF_PR_S
AF_PB_S
AF_Y_S
R3004 100
D3001 MA2J11100L
TO D-BOARD (D5)
J5
TO HY-BOARD (H1)
J11
F
G
H
I
J
1
2
3
4

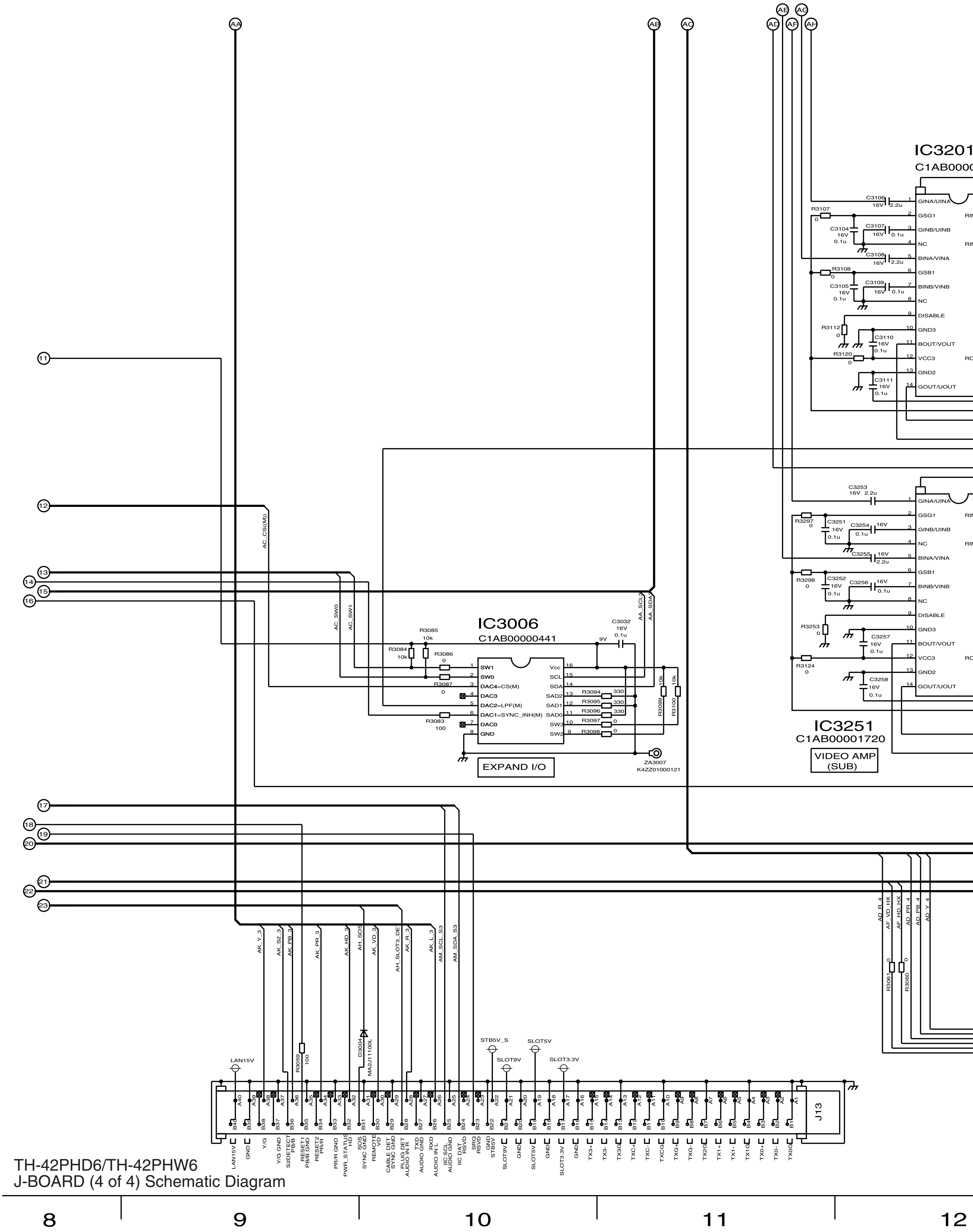
TH-42PHD6/TH-42PHW6 J-BOARD (3 of 4) Schematic Diagram


AUDIO SW
IC3001
C0JBAR000241
Q3002
2SD0601A0L
L3002
ELJPA100KF
C3008
50V
0.1u
C3007
16V
47u
ZA3001
K4ZZ01000121
EXPAND I/O
IC3003
C1AB00000441
L3005
ELJPA100KF
ZA3008
K4ZZ01000121
IC3002
C0JBBR000002
IIC SW
L3003
ELJPA100KF
IC3004
C1AB00000454
EXPAND I/O
D3003
MA2J1100L
R3025
100
TO
D-BOARD
(D6)
J6
TO
HY-BOARD
(H2)
J12
LAN15V
STB5V_S
SLOT9V
SLOT5V
SLOT3.3V
AE_SW1
AE_SW0
AC_SW0
AC_SW1
AB_SDA3
AB_SCL3
AF_DPMS_VD
AF_DPMS_HD
AH_SOS
AH_SLOT2_DET
AH_SLOT3_DET
A
B
C
D
E
F
G
H
11
12
13
14
15
16
17
18
19
20
21
22
23

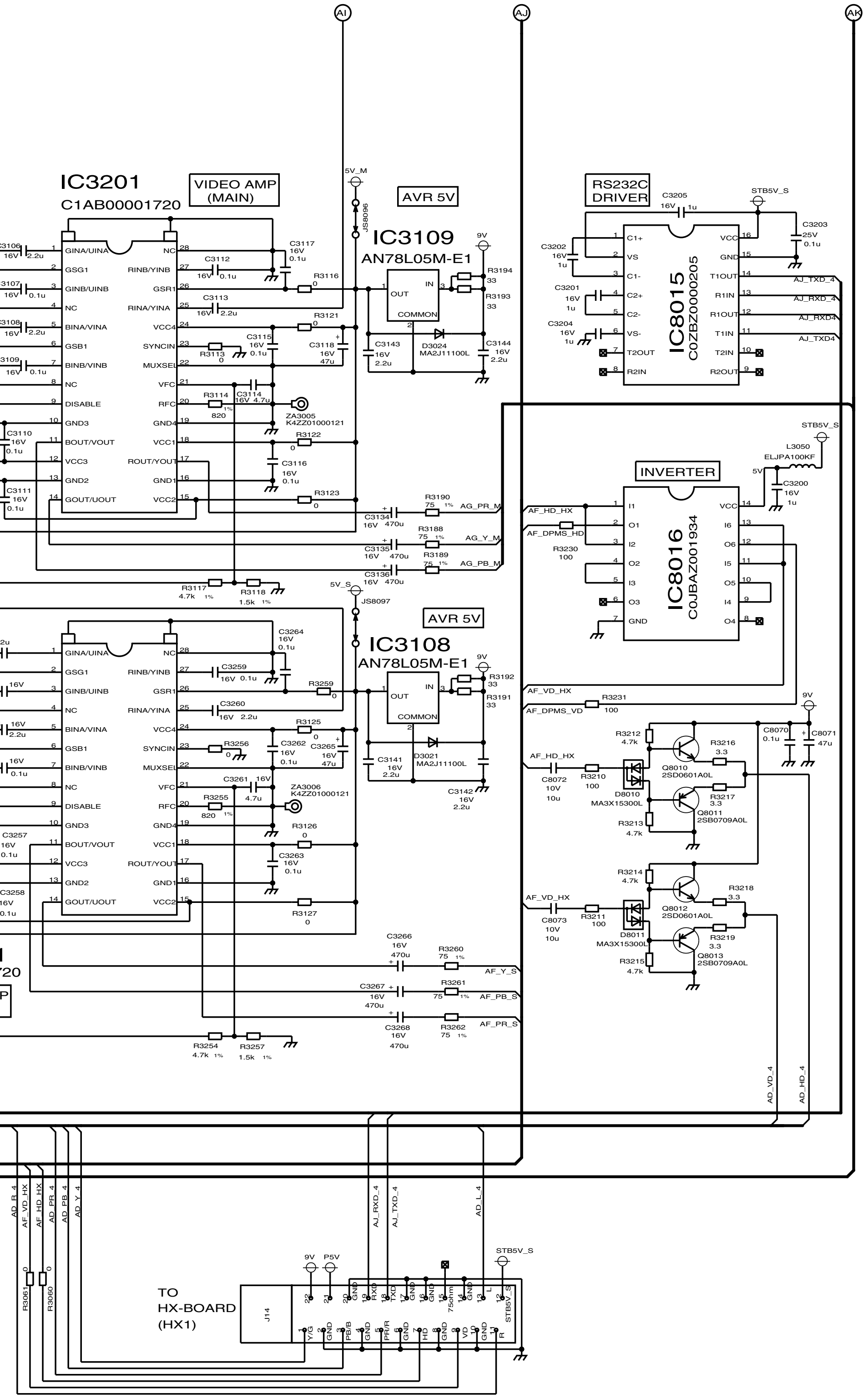
TH-42PHD6/TH-42PHW6 J-BOARD (3 of 4) Schematic Diagram

5	6	7	8

14.21. J-Board (4 of 4) Schematic Diagram


AA
AB
AC
AD
AE
AF
AG
AH
IC3201
C1AB0000
C3106 16V 2.2u
R3107 0
C3104 16V 0.1u
C3107 16V 0.1u
C3108 16V 2.2u
R3108 0
C3105 16V 0.1u
C3109 16V 0.1u
R3112 0
C3110 16V 0.1u
R3120 0
C3111 16V 0.1u
1 GINA/UINA
2 GSG1
3 GINB/UINB
4 NC
5 BINA/VINA
6 GSB1
7 BINB/VINB
8 NC
9 DISABLE
10 GND3
11 BOUT/VOUT
12 VCC3
13 GND2
14 GOUT/UOUT
11
12
13
14
15
16
AC_CS(M)
AC_SW0
AC_SW1
AA_SCL
AA_SDA
IC3006
C1AB00000441
R3085 10k
R3084 10k
R3086 0
R3087 0
R3083 100
C3032 16V 0.1u
9V
1 SW1
2 SW0
3 DAC4=CS(M)
4 DAC3
5 DAC2=LPF(M)
6 DAC1=SYNC_INH(M)
7 DAC0
8 GND
16 Vcc
15 SCL
14 SDA
13 SAD2
12 SAD1
11 SAD0
10 SW3
9 SW2
R3094 330
R3095 330
R3096 330
R3097 0
R3098 0
R3099 10k
R3100 10k
EXPAND I/O
ZA3007
K4ZZ01000121
C3253 16V 2.2u
R3297 0
C3251 16V 0.1u
C3254 16V 0.1u
C3255 16V 2.2u
R3298 0
C3252 16V 0.1u
C3256 16V 0.1u
R3253 0
C3257 16V 0.1u
R3124 0
C3258 16V 0.1u
IC3251
C1AB00001720
VIDEO AMP (SUB)
17
18
19
20
21
22
23
AK_Y_3
AK_S2_3
AK_PB_3
AK_PR_3
AK_HD_3
AH_SOS
AK_VD_3
AH_SLOT3_DET
AK_R_3
AK_L_3
AM_SCL_S3
AM_SDA_S3
AD_R_4
AF_VD_HX
AF_HD_HX
AD_PR_4
AD_PB_4
AD_Y_4
R3061 0
R3060 0
R3059 100
D3004 MA2J11100L
LAN15V
STB5V_S
SLOT9V
SLOT5V
SLOT3.3V
J13
A40 A39 A38 A37 A36 A35 A34 A33 A32 A31 A30 A29 A28 A27 A26 A25 A24 A23 A22 A21 A20 A19 A18 A17 A16 A15 A14 A13 A12 A11 A10 A9 A8 A7 A6 A5 A4 A3 A2 A1
B40 B39 B38 B37 B36 B35 B34 B33 B32 B31 B30 B29 B28 B27 B26 B25 B24 B23 B22 B21 B20 B19 B18 B17 B16 B15 B14 B13 B12 B11 B10 B9 B8 B7 B6 B5 B4 B3 B2 B1
LAN15V
GND
Y/G
Y/G GND
S2DETECT PB/B
RESET1 PB/B GND
RESET2 PR/R
PR/R GND
PWR_STATUS HD
SOS SYNC GND
REMOTE VD
CABLE DET SYNC GND
PLUG DET AUDIO IN R
TXD AUDIO GND
RXD AUDIO IN L
IIC SCL AUDIO GND
IIC DAT RSVD
SRQ RSVD
GND STB5V
SLOT9V
GND
SLOT5V
GND
SLOT3.3V
GND
TX3+
TX3-
TX3G
TXC+
TXC-
TXCG
TXG+
TXG-
TX2G
TX1+
TX1-
TX1G
TX0+
TX0-
TX0G
8
9
10
11
12

TH-42PHD6/TH-42PHW6
J-BOARD (4 of 4) Schematic Diagram

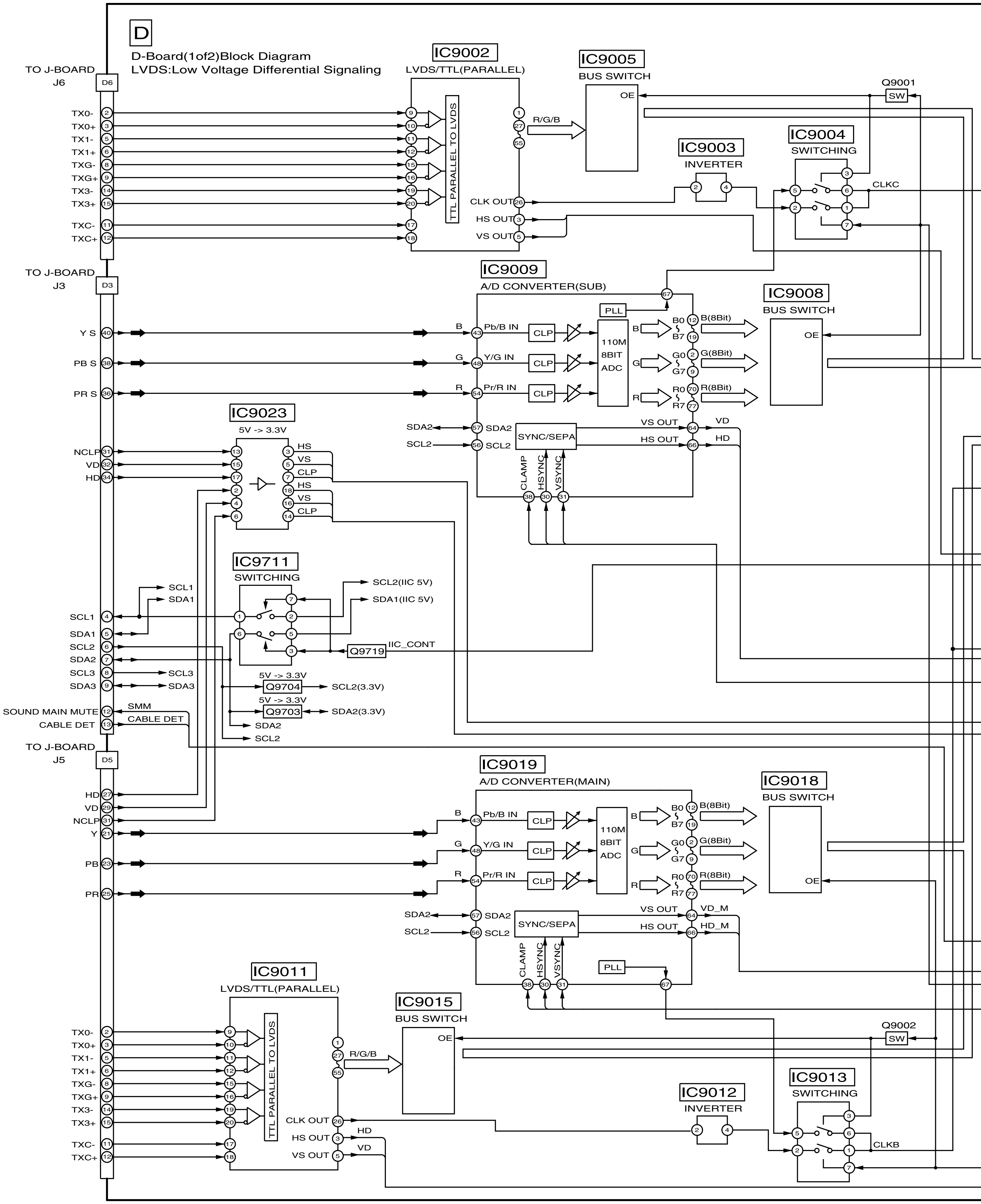

AI
AJ
AK
IC3201
C1AB00001720
VIDEO AMP (MAIN)
AVR 5V
IC3109
AN78L05M-E1
5V_M
JS8096
9V
D3024
MA2J11100L
RS232C DRIVER
IC8015
C0ZBZ0000205
STB5V_S
AJ_TXD_4
AJ_RXD_4
AJ_RXD4
AJ_TXD4
INVERTER
IC8016
C0JBAZ001934
L3050
ELJPA100KF
AG_PR_M
AG_Y_M
AG_PB_M
AF_HD_HX
AF_DPMS_HD
AF_VD_HX
AF_DPMS_VD
5V_S
JS8097
AVR 5V
IC3108
AN78L05M-E1
D3021
MA2J11100L
ZA3005
K4ZZ01000121
ZA3006
K4ZZ01000121
Q8010
2SD0601A0L
Q8011
2SB0709A0L
Q8012
2SD0601A0L
Q8013
2SB0709A0L
D8010
MA3X15300L
D8011
MA3X15300L
AF_Y_S
AF_PB_S
AF_PR_S
AD_VD_4
AD_HD_4
AD_R_4
AF_VD_HX
AF_HD_HX
AD_PR_4
AD_PB_4
AD_Y_4
AJ_RXD_4
AJ_TXD_4
AD_L_4
TO
HX-BOARD
(HX1)
J14
P5V
R3061
R3060

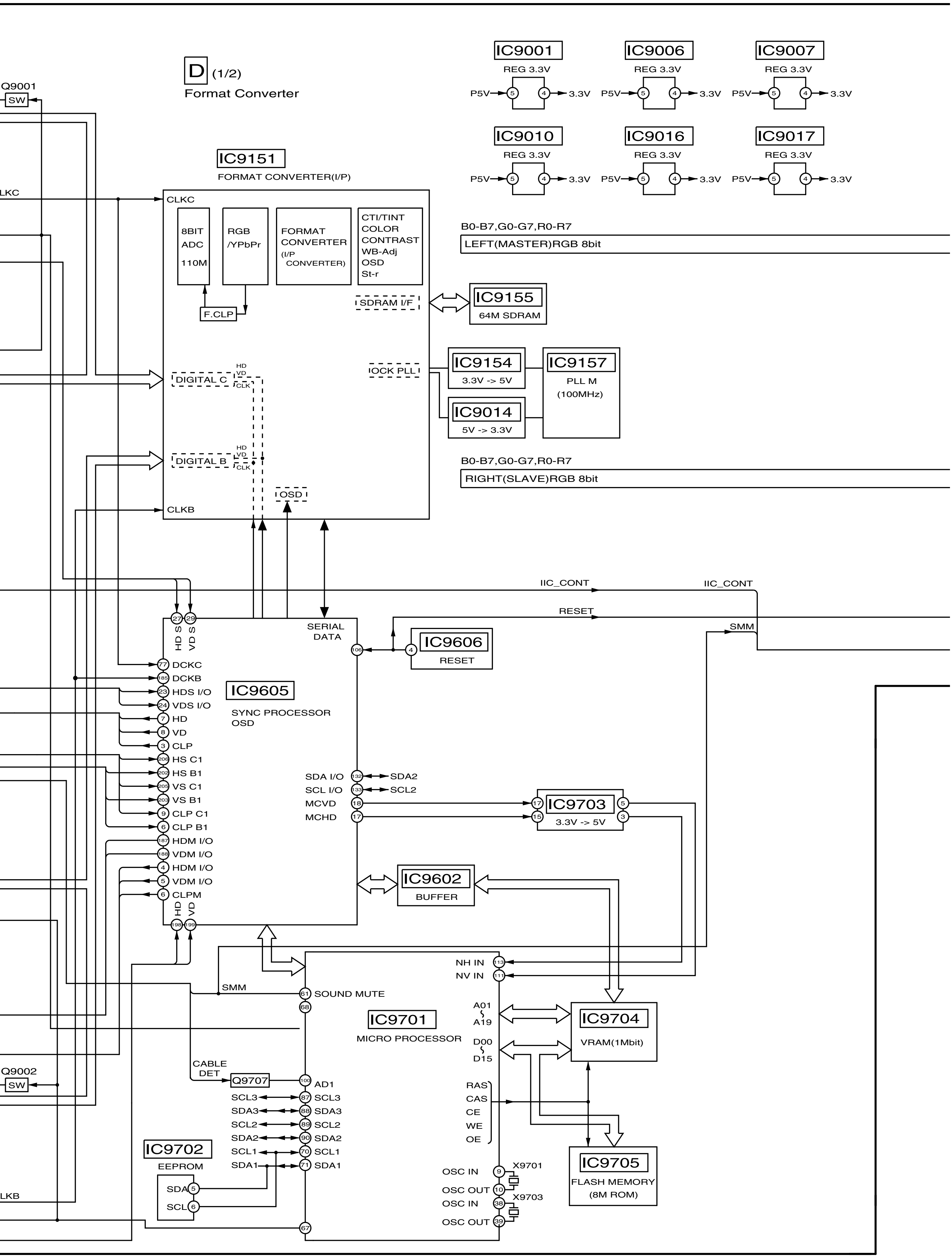
J-BOARD TNPA2826 (4/4)

TH-42PHD6/TH-42PHW6
J-BOARD (4 of 4) Schematic Diagram

12 13 14 15

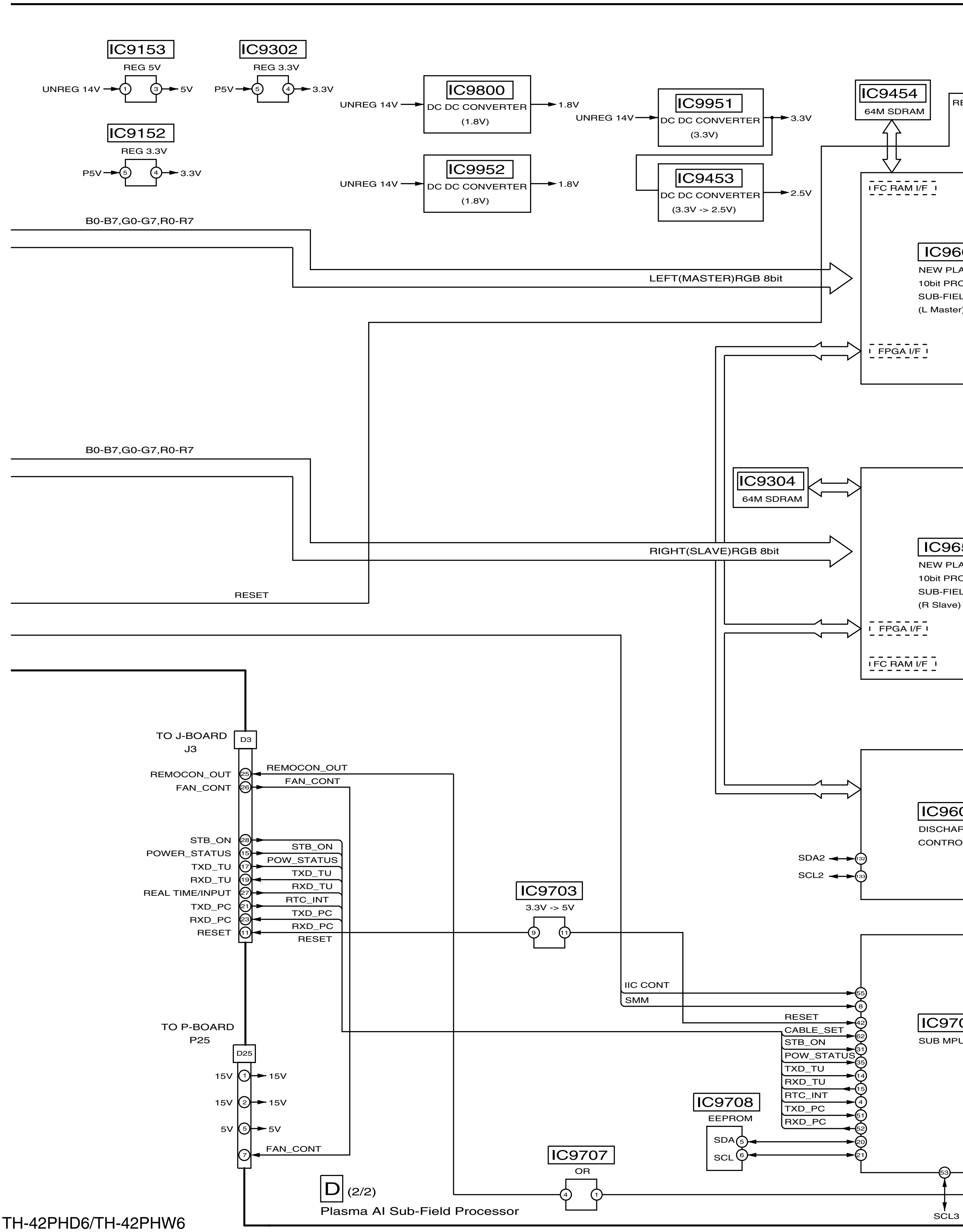
14.22. D-Board (1 of 2) Block Diagram


D
D-Board(1of2)Block Diagram
LVDS:Low Voltage Differential Signaling
TO J-BOARD J6
D6
TX0-
TX0+
TX1-
TX1+
TXG-
TXG+
TX3-
TX3+
TXC-
TXC+
IC9002
LVDS/TTL(PARALLEL)
TTL PARALLEL TO LVDS
R/G/B
CLK OUT
HS OUT
VS OUT
IC9005
BUS SWITCH
OE
Q9001
SW
IC9003
INVERTER
IC9004
SWITCHING
CLKC
TO J-BOARD J3
D3
Y S
PB S
PR S
IC9009
A/D CONVERTER(SUB)
PLL
Pb/B IN
Y/G IN
Pr/R IN
CLP
110M
8BIT
ADC
B0 B7 B(8Bit)
G0 G7 G(8Bit)
R0 R7 R(8Bit)
IC9008
BUS SWITCH
OE
SDA2
SCL2
SYNC/SEPA
VS OUT
HS OUT
VD
HD
CLAMP
HSYNC
VSYNC
IC9023
5V -> 3.3V
HS
VS
CLP
NCLP
VD
HD
IC9711
SWITCHING
SCL1
SDA1
SCL2(IIC 5V)
SDA1(IIC 5V)
SCL2
SDA2
SCL3
SDA3
Q9719
IIC_CONT
5V -> 3.3V
Q9704
SCL2(3.3V)
5V -> 3.3V
Q9703
SDA2(3.3V)
SOUND MAIN MUTE
CABLE DET
SMM
CABLE DET
TO J-BOARD J5
D5
HD
VD
NCLP
Y
PB
PR
IC9019
A/D CONVERTER(MAIN)
IC9018
BUS SWITCH
VD_M
HD_M
IC9011
LVDS/TTL(PARALLEL)
IC9015
BUS SWITCH
Q9002
SW
IC9012
INVERTER
IC9013
SWITCHING
CLKB

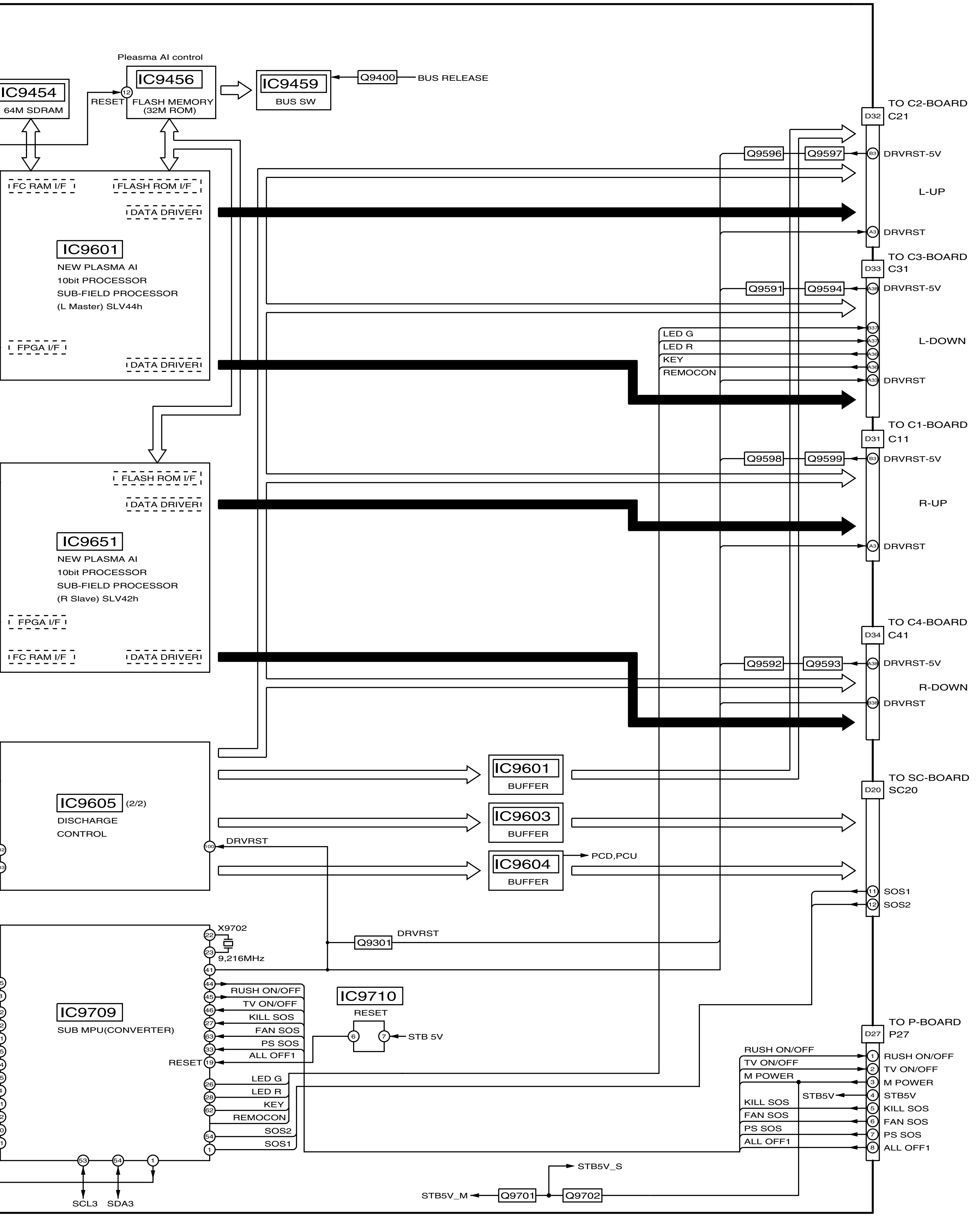

D (1/2)
Format Converter
Q9001
SW
LKC
IC9001
REG 3.3V
IC9006
REG 3.3V
IC9007
REG 3.3V
P5V
3.3V
IC9010
REG 3.3V
IC9016
REG 3.3V
IC9017
REG 3.3V
IC9151
FORMAT CONVERTER(I/P)
CLKC
8BIT ADC 110M
RGB /YPbPr
FORMAT CONVERTER (I/P CONVERTER)
CTI/TINT COLOR CONTRAST WB-Adj OSD St-r
F.CLP
SDRAM I/F
B0-B7,G0-G7,R0-R7
LEFT(MASTER)RGB 8bit
IC9155
64M SDRAM
DIGITAL C
HD VD CLK
OCK PLL
IC9154
3.3V -> 5V
IC9157
PLL M (100MHz)
IC9014
5V -> 3.3V
DIGITAL B
HD VD CLK
B0-B7,G0-G7,R0-R7
RIGHT(SLAVE)RGB 8bit
OSD
CLKB
IIC_CONT
IIC_CONT
RESET
SMM
SERIAL DATA
IC9606
RESET
IC9605
SYNC PROCESSOR OSD
HD S
VD S
DCKC
DCKB
HDS I/O
VDS I/O
HD
VD
CLP
HS C1
HS B1
VS C1
VS B1
CLP C1
CLP B1
HDM I/O
VDM I/O
HDM I/O
VDM I/O
CLPM
HD
VD
SDA I/O
SCL I/O
MCVD
MCHD
SDA2
SCL2
IC9703
3.3V -> 5V
IC9602
BUFFER
NH IN
NV IN
SMM
SOUND MUTE
IC9701
MICRO PROCESSOR
A01 ~ A19
D00 ~ D15
IC9704
VRAM(1Mbit)
CABLE DET
Q9707
AD1
Q9002
SW
SCL3
SDA3
SCL2
SDA2
SCL1
SDA1
RAS
CAS
CE
WE
OE
IC9702
EEPROM
SDA
SCL
OSC IN
OSC OUT
OSC IN
OSC OUT
X9701
X9703
IC9705
FLASH MEMORY (8M ROM)
LKB

TH-42PHD6/TH-42PHW6
D-BOARD (1 of 2) Block Diagram

14.23. D-Board (2 of 2) Block Diagram

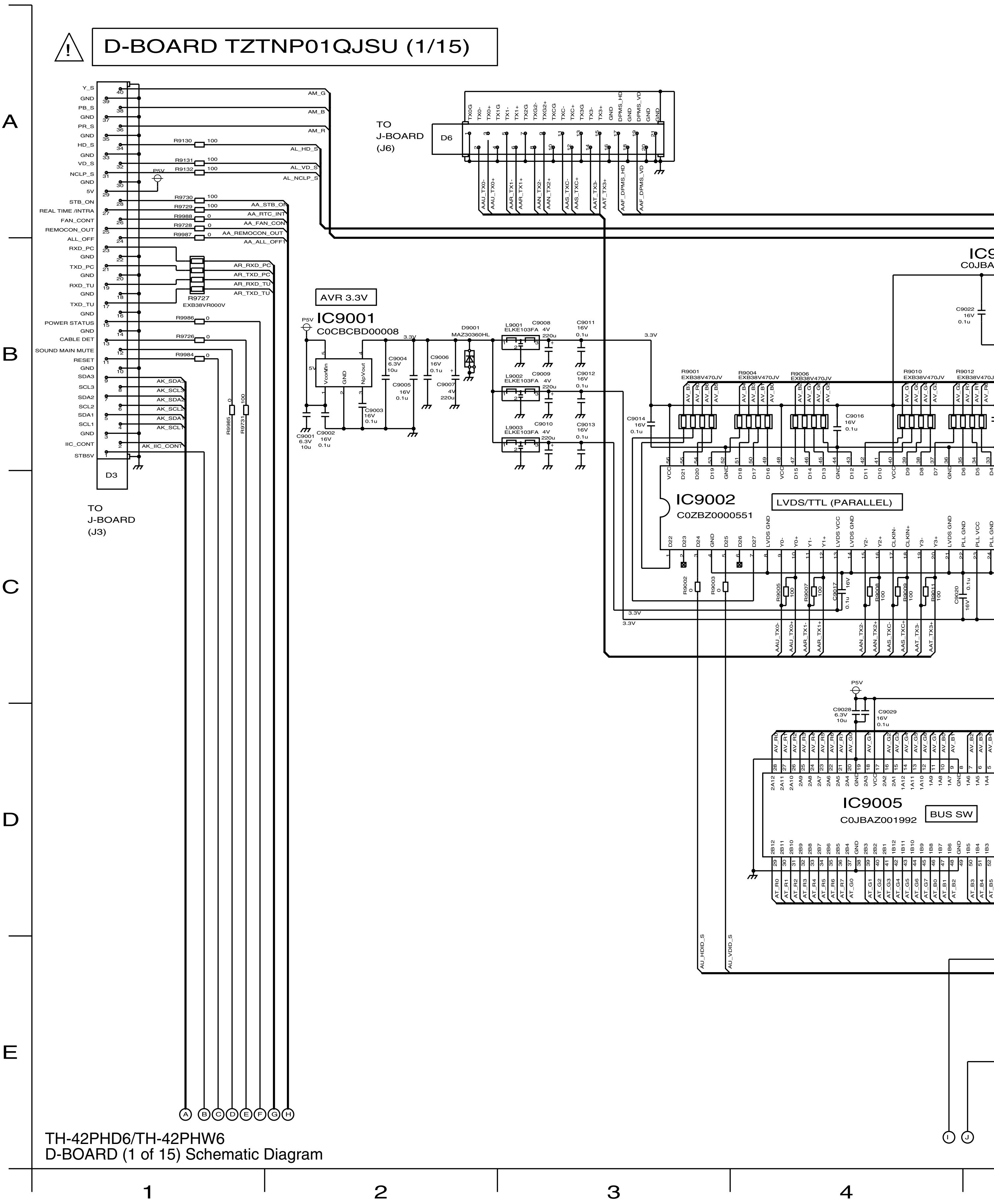

IC9153
REG 5V
UNREG 14V
5V
IC9302
REG 3.3V
P5V
3.3V
IC9152
REG 3.3V
P5V
3.3V
IC9800
DC DC CONVERTER
(1.8V)
UNREG 14V
1.8V
IC9952
DC DC CONVERTER
(1.8V)
UNREG 14V
1.8V
IC9951
DC DC CONVERTER
(3.3V)
UNREG 14V
3.3V
IC9453
DC DC CONVERTER
(3.3V -> 2.5V)
2.5V
IC9454
64M SDRAM
FC RAM I/F
B0-B7,G0-G7,R0-R7
LEFT(MASTER)RGB 8bit
IC96
NEW PLA
10bit PRO
SUB-FIEL
(L Master)
FPGA I/F
B0-B7,G0-G7,R0-R7
IC9304
64M SDRAM
RIGHT(SLAVE)RGB 8bit
IC96
NEW PLA
10bit PRO
SUB-FIEL
(R Slave)
RESET
FPGA I/F
FC RAM I/F
TO J-BOARD
J3
D3
REMOCON_OUT
FAN_CONT
STB_ON
POWER_STATUS
TXD_TU
RXD_TU
REAL TIME/INPUT
TXD_PC
RXD_PC
RESET
REMOCON_OUT
FAN_CONT
STB_ON
POW_STATUS
TXD_TU
RXD_TU
RTC_INT
TXD_PC
RXD_PC
RESET
IC96
DISCHAR
CONTRO
SDA2
SCL2
IC9703
3.3V -> 5V
IIC CONT
SMM
RESET
CABLE_SET
STB_ON
POW_STATUS
TXD_TU
RXD_TU
RTC_INT
TXD_PC
RXD_PC
IC97
SUB MPU
TO P-BOARD
P25
D25
15V
15V
15V
15V
5V
5V
FAN_CONT
IC9708
EEPROM
SDA
SCL
IC9707
OR
SCL3
D (2/2)
Plasma AI Sub-Field Processor

TH-42PHD6/TH-42PHW6
D-BOARD (2 of 2) Block Diagram

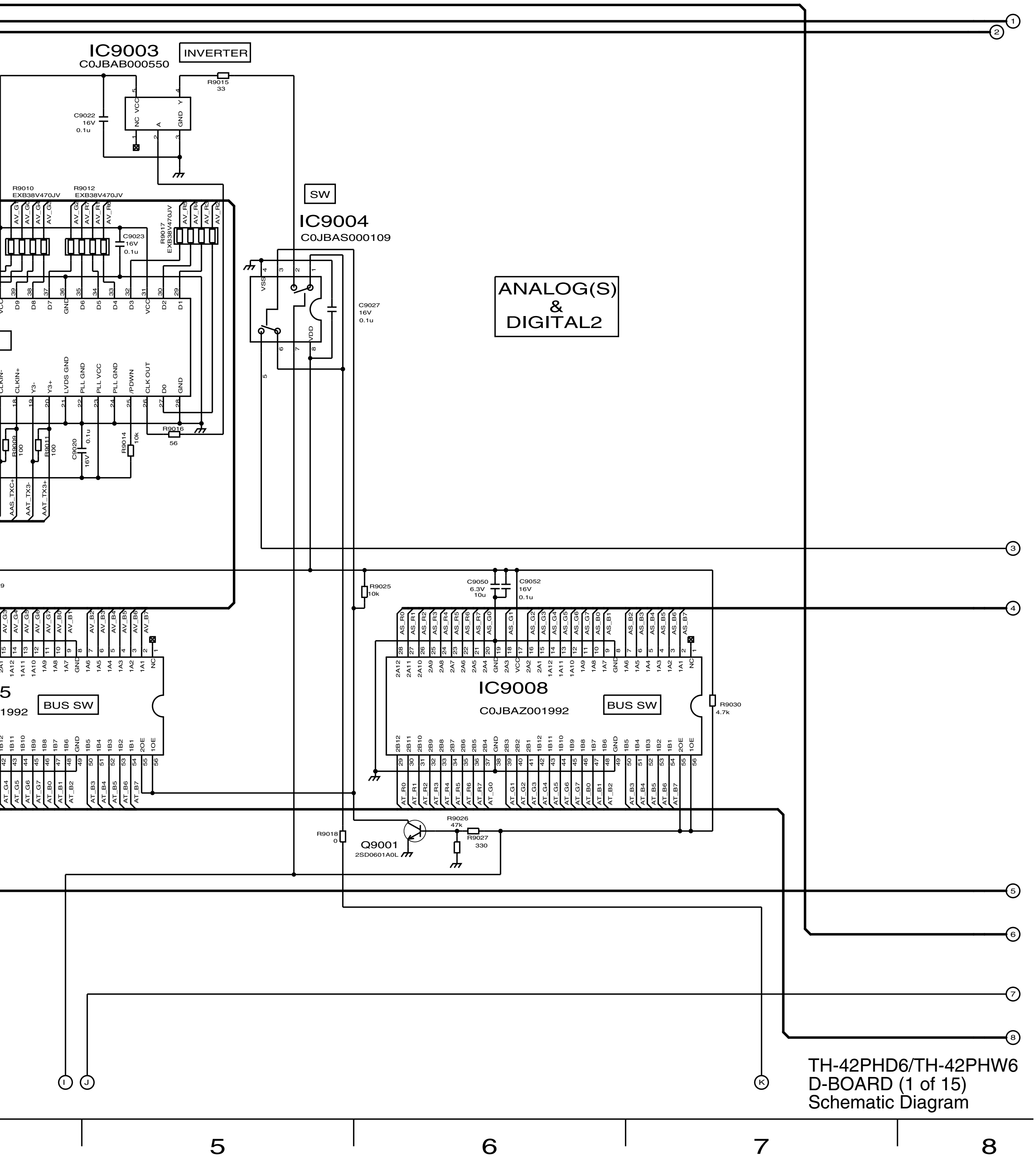

Pleasma AI control
IC9454
64M SDRAM
IC9456
RESET
12
FLASH MEMORY
(32M ROM)
IC9459
BUS SW
Q9400
BUS RELEASE
FC RAM I/F
FLASH ROM I/F
DATA DRIVER
IC9601
NEW PLASMA AI
10bit PROCESSOR
SUB-FIELD PROCESSOR
(L Master) SLV44h
FPGA I/F
DATA DRIVER
FLASH ROM I/F
DATA DRIVER
IC9651
NEW PLASMA AI
10bit PROCESSOR
SUB-FIELD PROCESSOR
(R Slave) SLV42h
FPGA I/F
FC RAM I/F
DATA DRIVER
IC9605 (2/2)
DISCHARGE
CONTROL
100
DRVRST
IC9601
BUFFER
IC9603
BUFFER
IC9604
BUFFER
PCD,PCU
IC9709
SUB MPU(CONVERTER)
X9702
9,216MHz
22
23
41
Q9301
DRVRST
44 RUSH ON/OFF
45 TV ON/OFF
46 KILL SOS
27 FAN SOS
63 PS SOS
33 ALL OFF1
RESET 19
IC9710
RESET
6
7
STB 5V
26 LED G
28 LED R
62 KEY
REMOCON
54 SOS2
1 SOS1
53
54
1
SCL3
SDA3
STB5V_M
Q9701
Q9702
STB5V_S
Q9596
Q9597
Q9591
Q9594
Q9598
Q9599
Q9592
Q9593
LED G
LED R
KEY
REMOCON
D32
TO C2-BOARD
C21
B3 DRVRST-5V
L-UP
A3 DRVRST
D33
TO C3-BOARD
C31
A38 DRVRST-5V
B37
A37
A36
A36
A33 DRVRST
L-DOWN
D31
TO C1-BOARD
C11
B3 DRVRST-5V
R-UP
A3 DRVRST
D34
TO C4-BOARD
C41
A38 DRVRST-5V
R-DOWN
B38 DRVRST
D20
TO SC-BOARD
SC20
11 SOS1
12 SOS2
D27
TO P-BOARD
P27
RUSH ON/OFF
TV ON/OFF
M POWER
STB5V
KILL SOS
FAN SOS
PS SOS
ALL OFF1
1 RUSH ON/OFF
2 TV ON/OFF
3 M POWER
4 STB5V
5 KILL SOS
6 FAN SOS
7 PS SOS
8 ALL OFF1

TH-42PHD6/TH-42PHW6 D-BOARD (2 of 2) Block Diagram

14.24. D-Board (1 of 15) Schematic Diagram

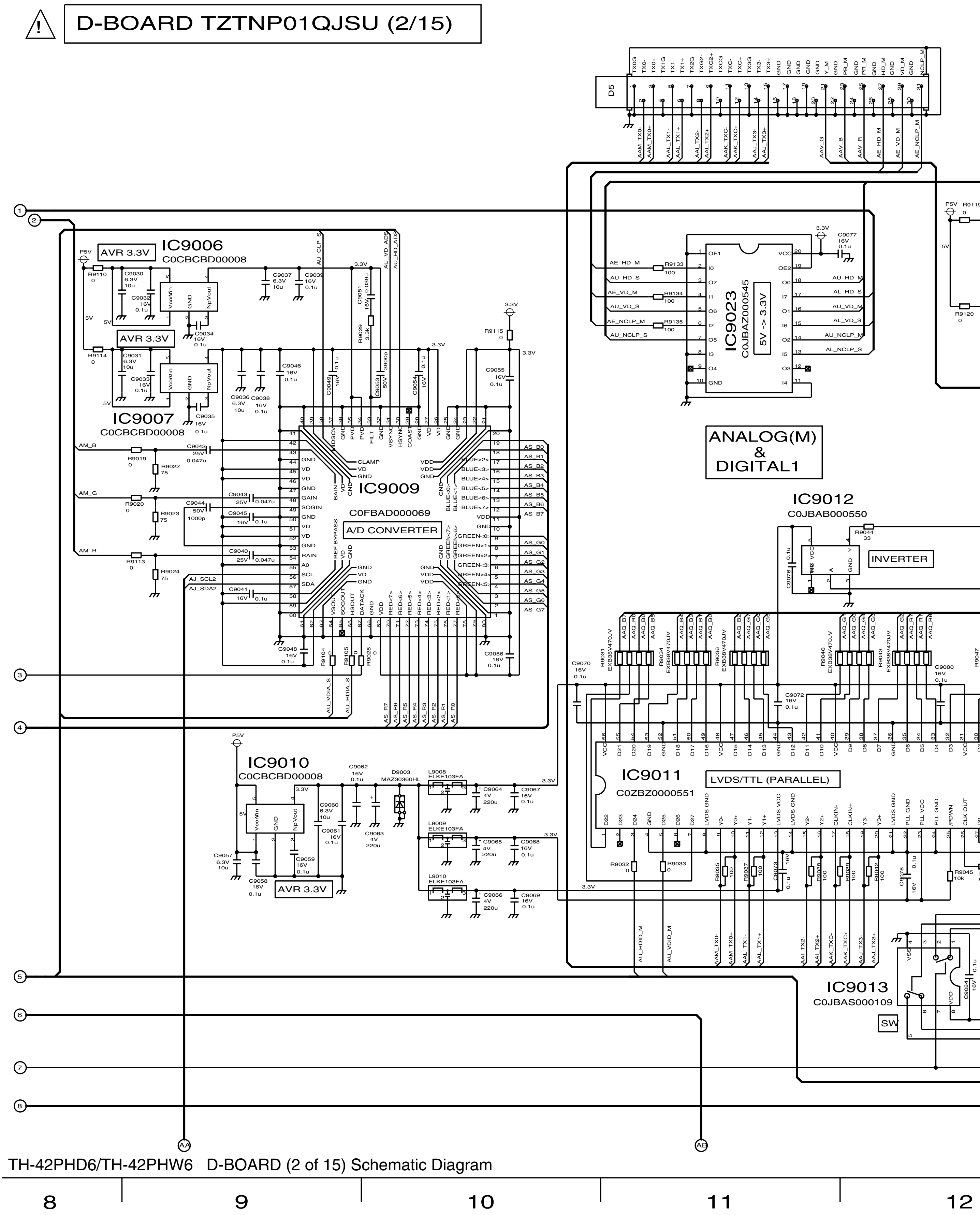

D-BOARD TZTNP01QJSU (1/15)
A
B
C
D
E
1
2
3
4
TO J-BOARD (J3)
D3
Y_S
PB_S
PR_S
HD_S
VD_S
NCLP_S
5V
STB_ON
REAL TIME /INTRA
FAN_CONT
REMOCON_OUT
ALL_OFF
RXD_PC
TXD_PC
RXD_TU
TXD_TU
POWER STATUS
CABLE DET
SOUND MAIN MUTE
RESET
SDA3
SCL3
SDA2
SCL2
SDA1
SCL1
IIC_CONT
STB5V
GND
AM_G
AM_B
AM_R
AL_HD_S
AL_VD_S
AL_NCLP_S
AA_STB_ON
AA_RTC_INT
AA_FAN_CONT
AA_REMOCON_OUT
AA_ALL_OFF
AR_RXD_PC
AR_TXD_PC
AR_RXD_TU
AR_TXD_TU
AK_SDA3
AK_SCL3
AK_SDA2
AK_SCL2
AK_SDA1
AK_SCL1
AK_IIC_CONT
R9130 100
R9131 100
R9132 100
R9730 100
R9729 100
R9988 0
R9728 0
R9987 0
R9727 EXB38VR000V
R9986 0
R9726 0
R9984 0
R9985 0
R9731 100
P5V
TO J-BOARD (J6)
D6
TX0G
TX0-
TX0+
TX1G
TX1-
TX1+
TX2G
TX2-
TX2+
TXCG
TXC-
TXC+
TX3G
TX3-
TX3+
DPMS_HD
DPMS_VD
AAU_TX0-
AAU_TX0+
AAR_TX1-
AAR_TX1+
AAN_TX2-
AAN_TX2+
AAS_TXC-
AAS_TXC+
AAT_TX3-
AAT_TX3+
AAF_DPMS_HD
AAF_DPMS_VD
AVR 3.3V
IC9001
C0CBCBD00008
Vcont
Vin
GND
NpVout
3.3V
C9001 6.3V 10u
C9002 16V 0.1u
C9003 16V 0.1u
C9004 6.3V 10u
C9005 16V 0.1u
C9006 16V 0.1u
C9007 4V 220u
D9001 MAZ30360HL
L9001 ELKE103FA
L9002 ELKE103FA
L9003 ELKE103FA
C9008 4V 220u
C9009 4V 220u
C9010 4V 220u
C9011 16V 0.1u
C9012 16V 0.1u
C9013 16V 0.1u
C9014 16V 0.1u
C9016 16V 0.1u
C9017 16V 0.1u
C9020 16V 0.1u
C9022 16V 0.1u
R9001 EXB38V470JV
R9004 EXB38V470JV
R9006 EXB38V470JV
R9010 EXB38V470JV
R9012 EXB38V470JV
R9002 0
R9003 0
R9005 100
R9007 100
R9008 100
R9009 100
R9011 100
IC9002
C0ZBZ0000551
LVDS/TTL (PARALLEL)
VCC
GND
LVDS GND
LVDS VCC
PLL GND
PLL VCC
Y0-
Y0+
Y1-
Y1+
Y2-
Y2+
CLKIN-
CLKIN+
Y3-
Y3+
AU_HDID_S
AU_VDID_S
IC9
C0JBA
IC9005
C0JBAZ001992
BUS SW
C9028 6.3V 10u
C9029 16V 0.1u
AT_R0
AT_R1
AT_R2
AT_R3
AT_R4
AT_R5
AT_R6
AT_R7
AT_G0
AT_G1
AT_G2
AT_G3
AT_G4
AT_G5
AT_G6
AT_G7
AT_B0
AT_B1
AT_B2
AT_B3
AT_B4
AT_B5
A
B
C
D
E
F
G
H
I
J

TH-42PHD6/TH-42PHW6
D-BOARD (1 of 15) Schematic Diagram

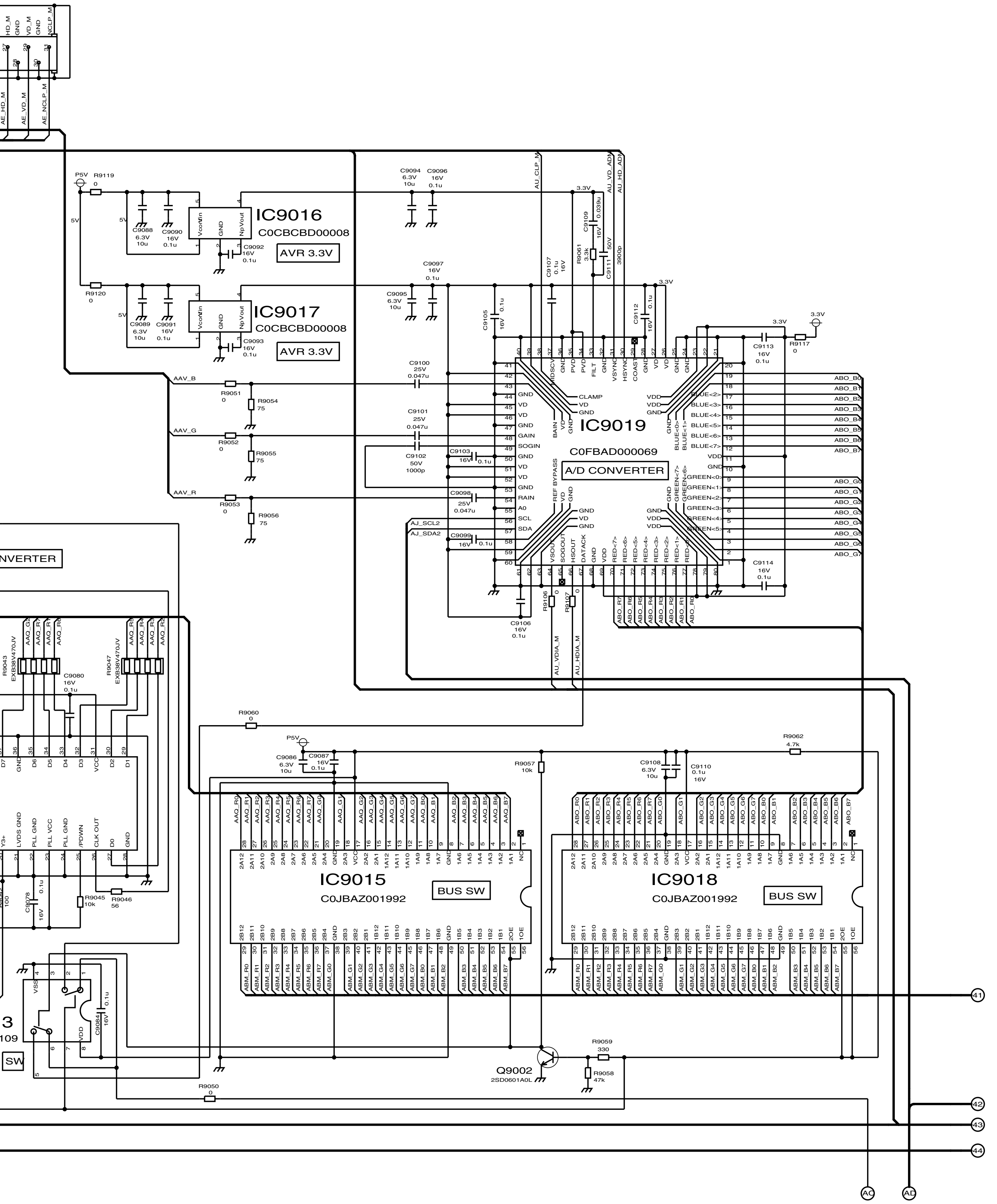

IC9003
INVERTER
C0JBAB000550
R9015
33
C9022
16V
0.1u
NC
VCC
A
GND
Y
R9010
EXB38V470JV
R9012
EXB38V470JV
R9017
EXB38V470JV
C9023
16V
0.1u
SW
IC9004
C0JBAS000109
VSS
VDD
C9027
16V
0.1u
ANALOG(S)
&
DIGITAL2
CLKIN-
CLKIN+
Y3-
Y3+
LVDS GND
PLL GND
PLL VCC
PLL GND
/PDWN
CLK OUT
D0
GND
R9009
100
R9011
100
C9020
16V
0.1u
R9014
10k
R9016
56
AAS_TXC+
AAT_TX3-
AAT_TX3+
R9025
10k
C9050
6.3V
10u
C9052
16V
0.1u
IC9008
C0JBAZ001992
BUS SW
R9030
4.7k
R9026
47k
R9027
330
R9018
0
Q9001
2SD0601A0L
1
2
3
4
5
6
7
8
I
J
K
5
6
7
8

TH-42PHD6/TH-42PHW6
D-BOARD (1 of 15)
Schematic Diagram

14.25. D-Board (2 of 15) Schematic Diagram


D-BOARD TZTNP01QJSU (2/15)
IC9006
C0CBCBD00008
AVR 3.3V
IC9007
C0CBCBD00008
AVR 3.3V
IC9009
C0FBAD000069
A/D CONVERTER
IC9010
C0CBCBD00008
AVR 3.3V
IC9023
C0JBAZ000545
5V -> 3.3V
ANALOG(M) & DIGITAL1
IC9012
C0JBAB000550
INVERTER
IC9011
C0ZBZ0000551
LVDS/TTL (PARALLEL)
IC9013
C0JBAS000109
SW
D5
D9003
MAZ30360HL
L9008
ELKE103FA
L9009
ELKE103FA
L9010
ELKE103FA
AM_B
AM_G
AM_R
AJ_SCL2
AJ_SDA2
AU_VDIA_S
AU_HDIA_S
AU_HDID_M
AU_VDID_M
AE_HD_M
AU_HD_S
AE_VD_M
AU_VD_S
AE_NCLP_M
AU_NCLP_S
AU_HD_M
AL_HD_S
AU_VD_M
AL_VD_S
AU_NCLP_M
AL_NCLP_S
AU_CLP_S
AU_VD_ADS
AU_HD_ADS
AS_B0
AS_B1
AS_B2
AS_B3
AS_B4
AS_B5
AS_B6
AS_B7
AS_G0
AS_G1
AS_G2
AS_G3
AS_G4
AS_G5
AS_G6
AS_G7
AS_R7
AS_R6
AS_R5
AS_R4
AS_R3
AS_R2
AS_R1
AS_R0
AAM_TX0-
AAM_TX0+
AAL_TX1-
AAL_TX1+
AAL_TX2-
AAL_TX2+
AAK_TXC-
AAK_TXC+
AAJ_TX3-
AAJ_TX3+
AAV_G
AAV_B
AAV_R
AE_HD_M
AE_VD_M
AE_NCLP_M
P5V
5V
3.3V
1
2
3
4
5
6
7
8
AA
AB
8
9
10
11
12

TH-42PHD6/TH-42PHW6   D-BOARD (2 of 15) Schematic Diagram

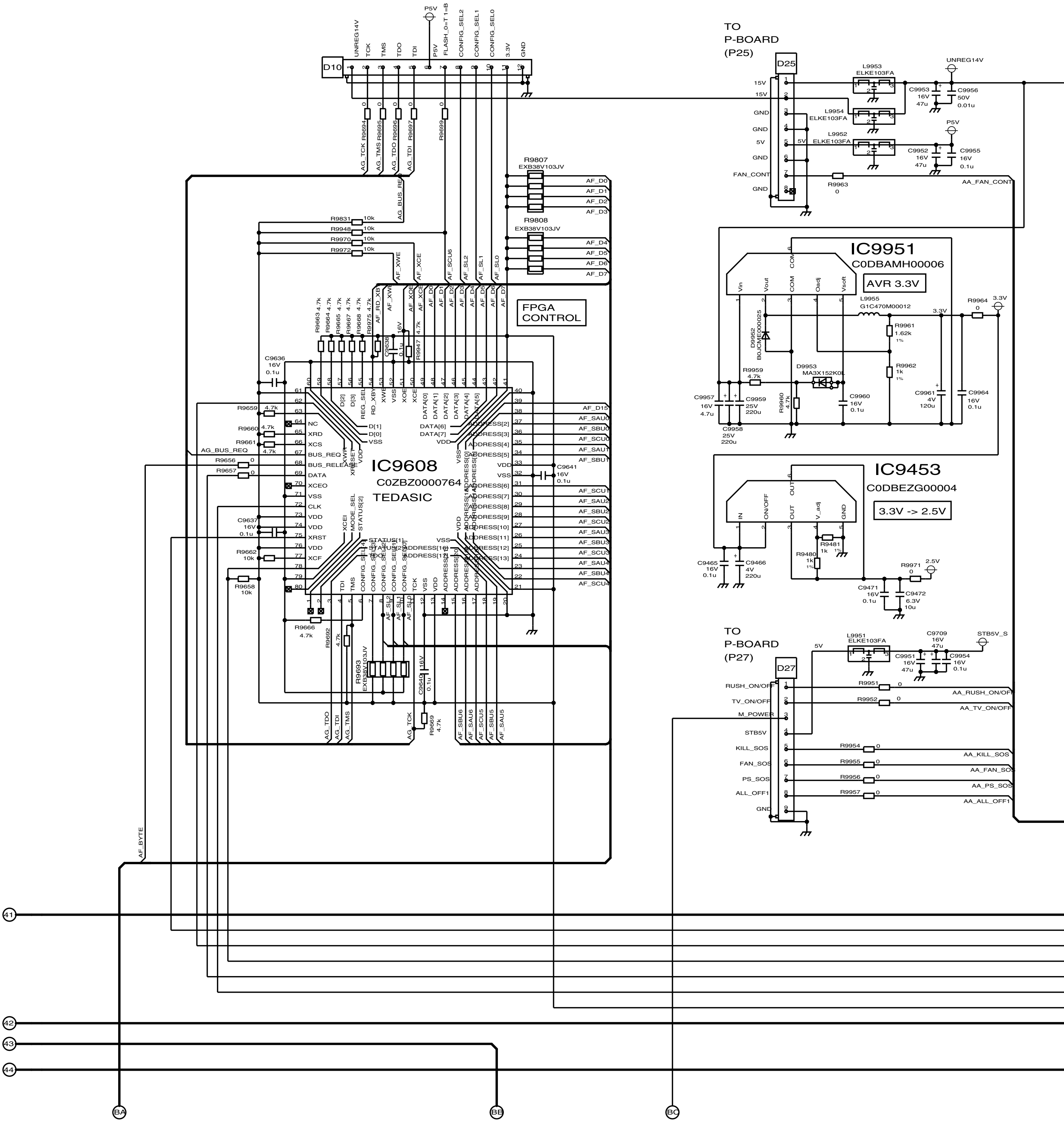

IC9016
C0CBCBD00008
AVR 3.3V
IC9017
C0CBCBD00008
AVR 3.3V
IC9019
C0FBAD000069
A/D CONVERTER
IC9015
C0JBAZ001992
BUS SW
IC9018
C0JBAZ001992
BUS SW
Q9002
2SD0601A0L
NVERTER
SW
P5V
3.3V
AAV_B
AAV_G
AAV_R
AJ_SCL2
AJ_SDA2
AU_CLP_M
AU_VD_ADM
AU_HD_ADM
AU_VDIA_M
AU_HDIA_M
41
42
43
44
AC
AD

TH-42PHD6/TH-42PHW6 D-BOARD (2 of 15) Schematic Diagram

12	13	14	15

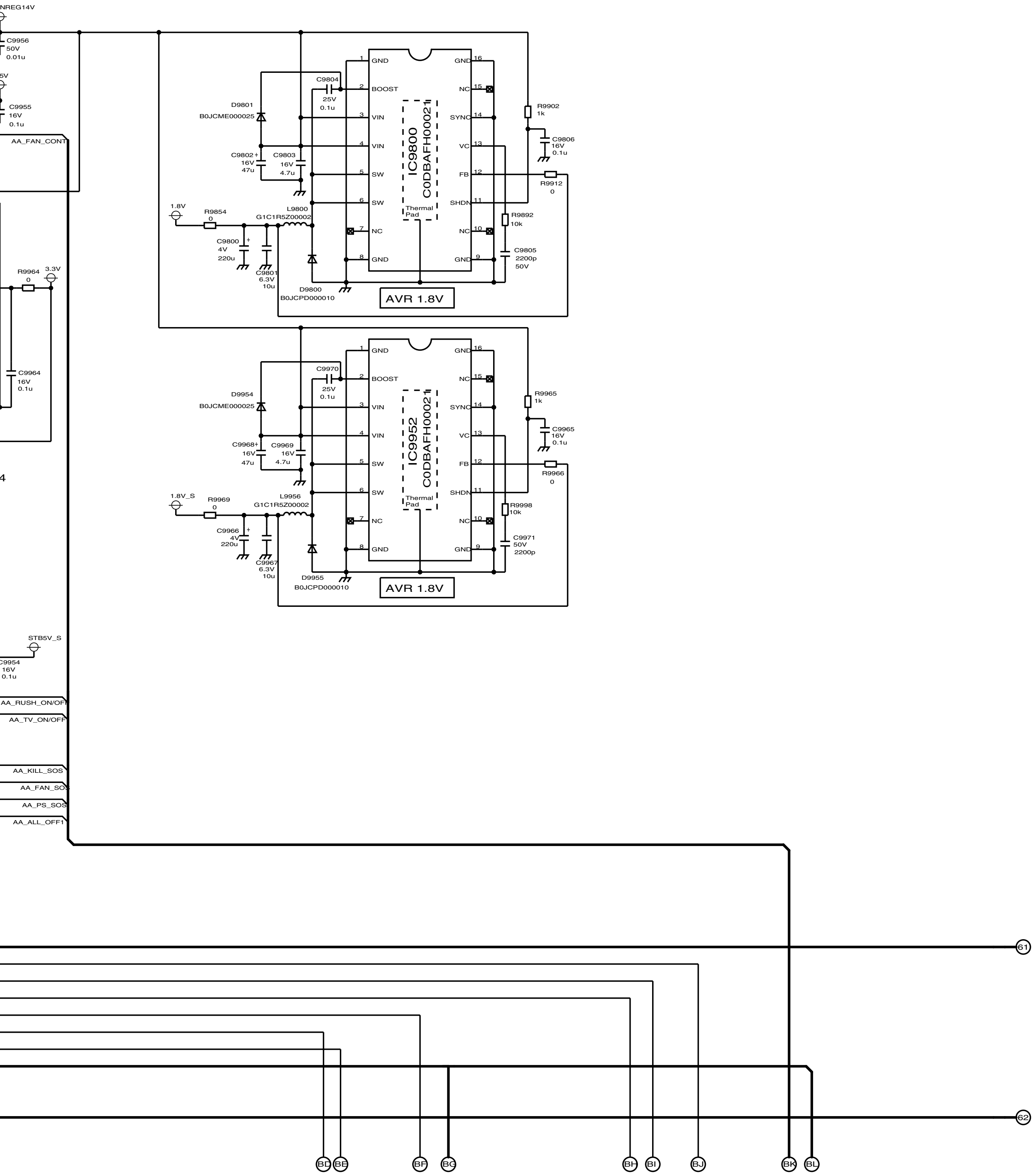
14.26. D-Board (3 of 15) Schematic Diagram

⚠ D-BOARD TZTNP01QJSU (3/15)


D10
UNREG14V
TCK
TMS
TDO
TDI
P5V
FLASH_0=T1=B
CONFIG_SEL2
CONFIG_SEL1
CONFIG_SEL0
3.3V
GND
R9694
R9695
R9696
R9697
R9699
AG_TCK
AG_TMS
AG_TDO
AG_TDI
AG_BUS_REQ
R9807
EXB38V103JV
R9808
EXB38V103JV
AF_D0
AF_D1
AF_D2
AF_D3
AF_D4
AF_D5
AF_D6
AF_D7
R9831 10k
R9948 10k
R9970 10k
R9972 10k
FPGA
CONTROL
IC9608
C0ZBZ0000764
TEDASIC
C9636
16V
0.1u
R9659 4.7k
R9660 4.7k
R9661 4.7k
R9656 0
R9657 0
C9637
16V
0.1u
R9662 10k
R9658 10k
R9666 4.7k
R9692 4.7k
R9693
EXB38V103JV
C9640 16V 0.1u
R9669 4.7k
C9641 16V 0.1u
AF_D15
AF_SAU0
AF_SBU0
AF_SCU0
AF_SAU1
AF_SBU1
AF_SCU1
AF_SAU2
AF_SBU2
AF_SCU2
AF_SAU3
AF_SBU3
AF_SCU3
AF_SAU4
AF_SBU4
AF_SCU4
AF_SBU6
AF_SAU6
AF_SCU5
AF_SBU5
AF_SAU5
AF_BYTE
TO
P-BOARD
(P25)
D25
15V
GND
5V
FAN_CONT
L9953
ELKE103FA
L9954
ELKE103FA
L9952
ELKE103FA
C9953 16V 47u
C9956 50V 0.01u
C9952 16V 47u
C9955 16V 0.1u
UNREG14V
P5V
R9963 0
AA_FAN_CONT
IC9951
C0DBAMH00006
AVR 3.3V
Vin
Vout
COM
Oadj
Vsoft
L9955
G1C470M00012
R9964 0
3.3V
R9961 1.62k
R9962 1k
D9962
B0JCME000025
D9953
MA3X152K0L
R9959 4.7k
R9960 4.7k
C9957 16V 4.7u
C9959 25V 220u
C9958 25V 220u
C9960 16V 0.1u
C9961 4V 120u
C9964 16V 0.1u
IC9453
C0DBEZG00004
3.3V -> 2.5V
IN
ON/OFF
OUT
V_adj
GND
R9481 1k
R9480 1k
C9465 16V 0.1u
C9466 4V 220u
C9471 16V 0.1u
C9472 6.3V 10u
R9971 0
2.5V
TO
P-BOARD
(P27)
D27
L9951
ELKE103FA
C9709 16V 47u
STB5V_S
C9951 16V 47u
C9954 16V 0.1u
RUSH_ON/OFF
TV_ON/OFF
M_POWER
STB5V
KILL_SOS
FAN_SOS
PS_SOS
ALL_OFF1
GND
R9951 0
R9952 0
R9954 0
R9955 0
R9956 0
R9957 0
AA_RUSH_ON/OFF
AA_TV_ON/OFF
AA_KILL_SOS
AA_FAN_SOS
AA_PS_SOS
AA_ALL_OFF1
41
42
43
44
BA
BB
BC

TH-42PHD6/TH-42PHW6 D-BOARD (3 of 15) Schematic Diagram

16 17 18 19

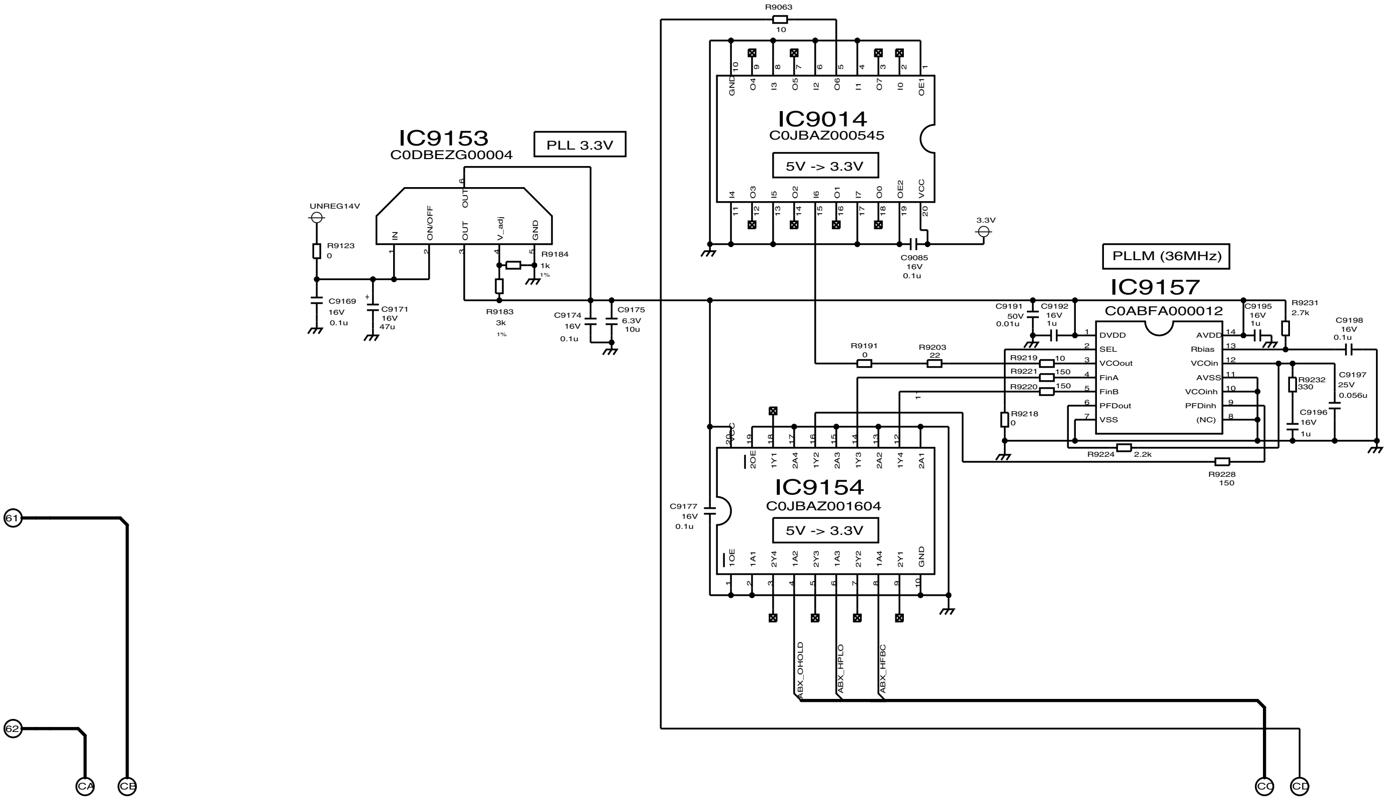

NREG14V
C9956
50V
0.01u
5V
C9955
16V
0.1u
AA_FAN_CONT
R9964
0
3.3V
C9964
16V
0.1u
4
STB5V_S
C9954
16V
0.1u
AA_RUSH_ON/OFF
AA_TV_ON/OFF
AA_KILL_SOS
AA_FAN_SOS
AA_PS_SOS
AA_ALL_OFF1
C9804
25V
0.1u
D9801
B0JCME000025
C9802
16V
47u
C9803
16V
4.7u
1.8V
R9854
0
L9800
G1C1R5Z00002
C9800
4V
220u
C9801
6.3V
10u
D9800
B0JCPD000010
IC9800
C0DBAFH00021
Thermal Pad
1 GND
2 BOOST
3 VIN
4 VIN
5 SW
6 SW
7 NC
8 GND
16 GND
15 NC
14 SYNC
13 VC
12 FB
11 SHDN
10 NC
9 GND
R9902
1k
C9806
16V
0.1u
R9912
0
R9892
10k
C9805
2200p
50V
AVR 1.8V
C9970
25V
0.1u
D9954
B0JCME000025
C9968
16V
47u
C9969
16V
4.7u
1.8V_S
R9969
0
L9956
G1C1R5Z00002
C9966
4V
220u
C9967
6.3V
10u
D9955
B0JCPD000010
IC9952
C0DBAFH00021
Thermal Pad
1 GND
2 BOOST
3 VIN
4 VIN
5 SW
6 SW
7 NC
8 GND
16 GND
15 NC
14 SYNC
13 VC
12 FB
11 SHDN
10 NC
9 GND
R9965
1k
C9965
16V
0.1u
R9966
0
R9998
10k
C9971
50V
2200p
AVR 1.8V
61
62
BD
BE
BF
BG
BH
BI
BJ
BK
BL

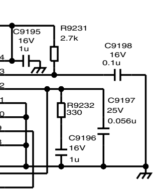
TH-42PHD6/TH-42PHW6   D-BOARD (3 of 15) Schematic Diagram

20 21 22 23

14.27. D-Board (4 of 15) Schematic Diagram

⚠ D-BOARD TZTNP01QJSU (4/15)


R9063
10
IC9014
C0JBAZ000545
5V -> 3.3V
GND O4 I3 O5 I2 O6 I1 O7 I0 OE1
I4 O3 I5 O2 I6 O1 I7 O0 OE2 VCC
C9085
16V
0.1u
3.3V
IC9153
C0DBEZG00004
PLL 3.3V
UNREG14V
R9123
0
IN ON/OFF OUT OUT V_adj GND
R9184
1k
1%
R9183
3k
1%
C9169
16V
0.1u
C9171
16V
47u
C9174
16V
0.1u
C9175
6.3V
10u
PLLM (36MHz)
IC9157
C0ABFA000012
C9191
50V
0.01u
C9192
16V
1u
C9195
16V
1u
R9231
2.7k
C9198
16V
0.1u
DVDD SEL VCOout FinA FinB PFDout VSS
AVDD Rbias VCOin AVSS VCOinh PFDinh (NC)
R9191
0
R9203
22
R9219 10
R9221 150
R9220 150
R9218
0
R9232
330
C9197
25V
0.056u
C9196
16V
1u
R9224 2.2k
R9228
150
IC9154
C0JBAZ001604
5V -> 3.3V
VCC 2OE 1Y1 2A4 1Y2 2A3 1Y3 2A2 1Y4 2A1
1OE 1A1 2Y4 1A2 2Y3 1A3 2Y2 1A4 2Y1 GND
C9177
16V
0.1u
ABX_OHOLD
ABX_HPLO
ABX_HFBC
61
62
CA
CB
CC
CD

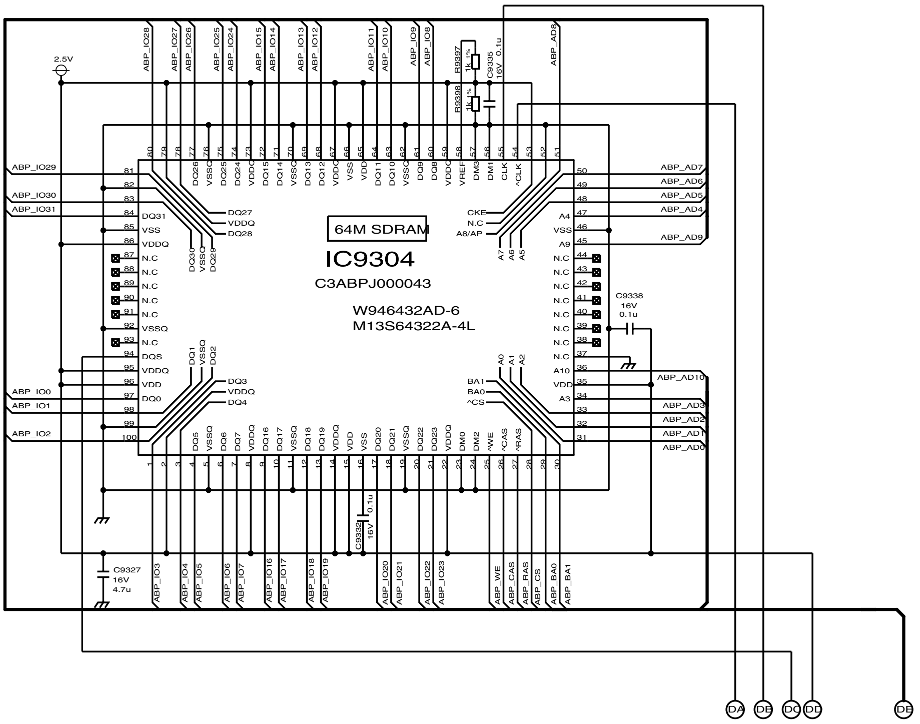

C9195
16V
1u
R9231
2.7k
C9198
16V
0.1u
R9232
330
C9197
25V
0.056u
C9196
16V
1u
CC
CD

TH-42PHD6/TH-42PHW6
D-BOARD (4 of 15) Schematic Diagram

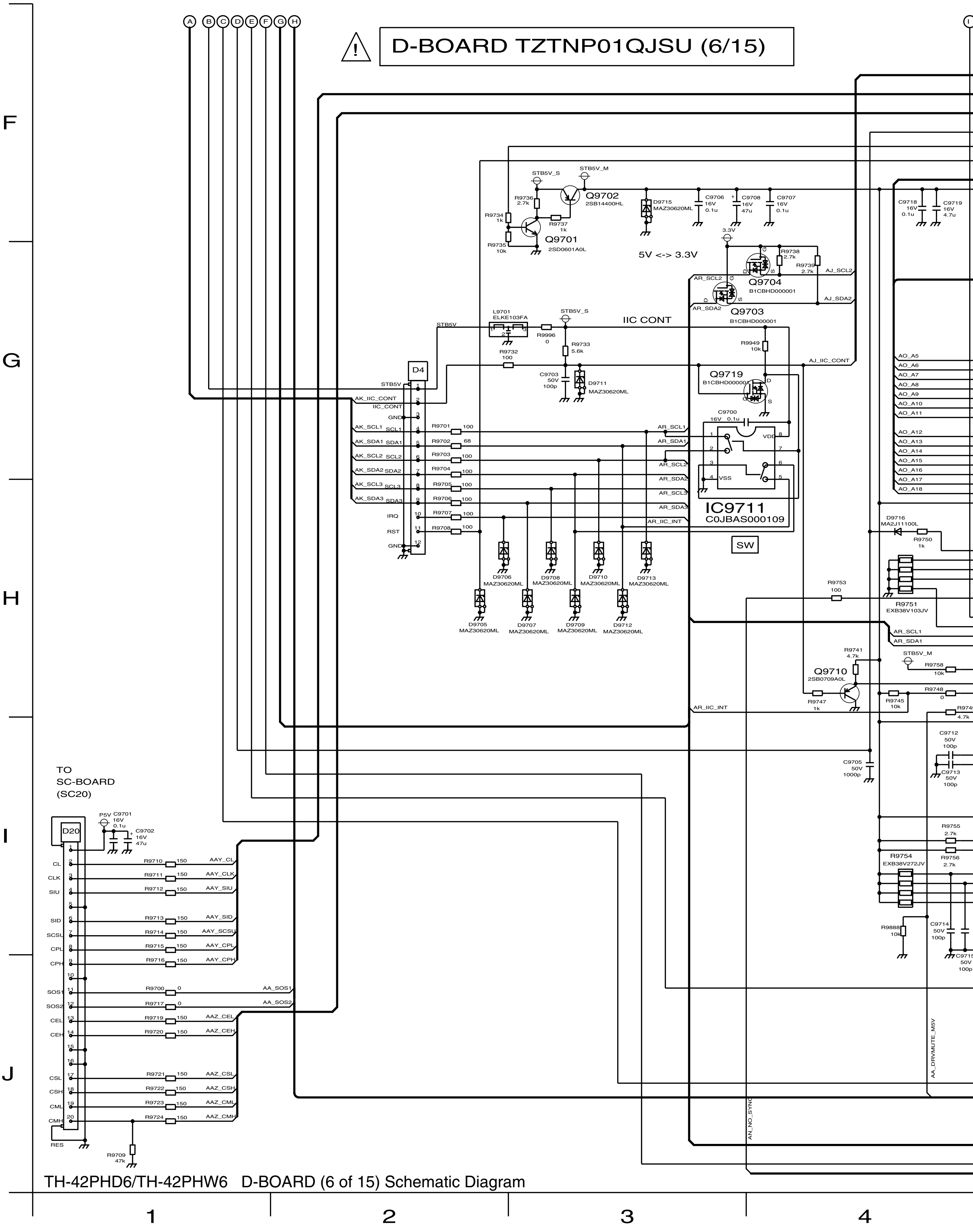
27 28 29 30

14.28. D-Board (5 of 15) Schematic Diagram

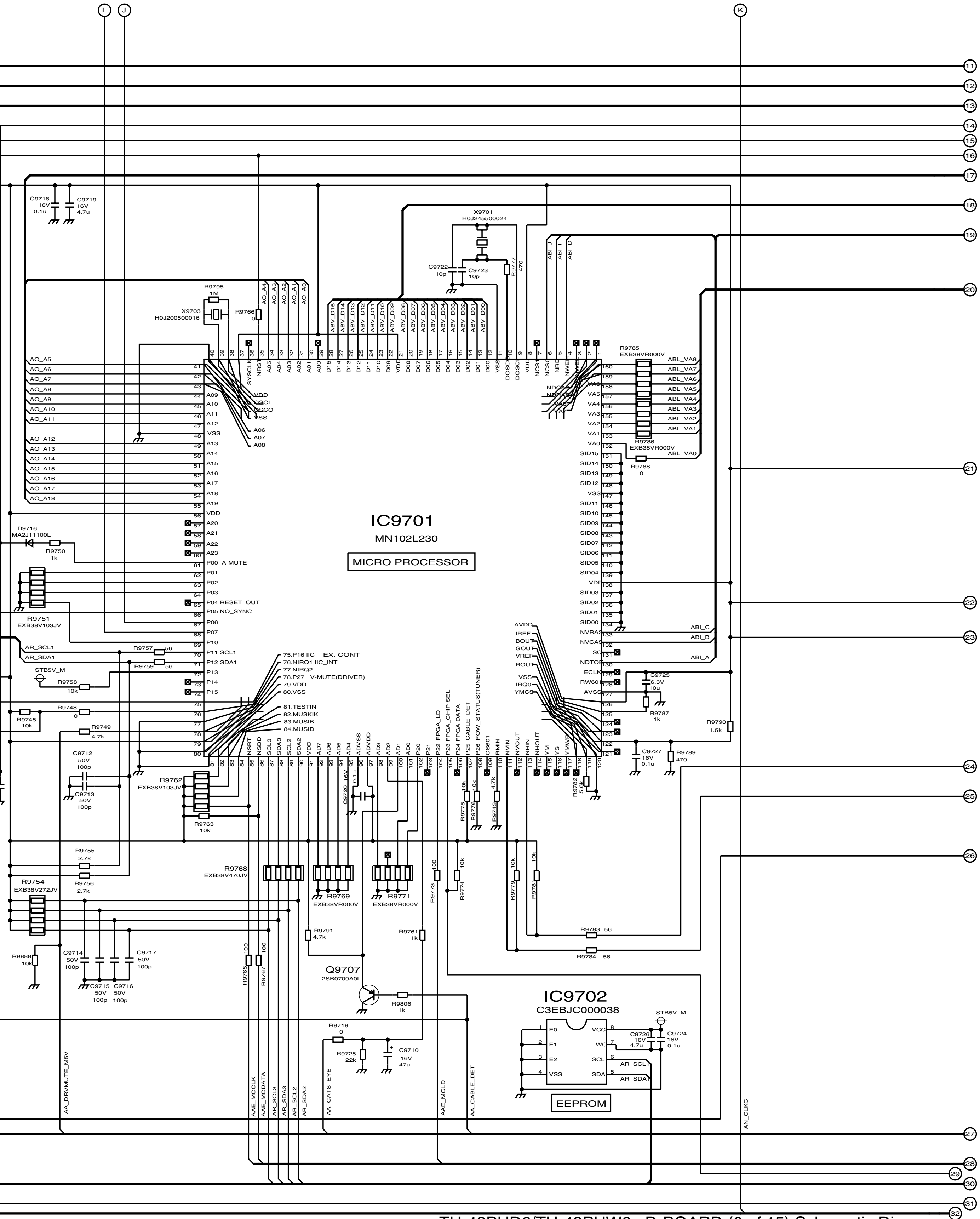
⚠ D-BOARD TZTNP01QJSU (5/15)


2.5V
64M SDRAM
IC9304
C3ABPJ000043
W946432AD-6
M13S64322A-4L
ABP_IO29
ABP_IO30
ABP_IO31
ABP_IO0
ABP_IO1
ABP_IO2
ABP_IO28
ABP_IO27
ABP_IO26
ABP_IO25
ABP_IO24
ABP_IO15
ABP_IO14
ABP_IO13
ABP_IO12
ABP_IO11
ABP_IO10
ABP_IO9
ABP_IO8
ABP_AD8
ABP_AD7
ABP_AD6
ABP_AD5
ABP_AD4
ABP_AD9
ABP_AD10
ABP_AD3
ABP_AD2
ABP_AD1
ABP_AD0
ABP_IO3
ABP_IO4
ABP_IO5
ABP_IO6
ABP_IO7
ABP_IO16
ABP_IO17
ABP_IO18
ABP_IO19
ABP_IO20
ABP_IO21
ABP_IO22
ABP_IO23
ABP_WE
ABP_CAS
ABP_RAS
ABP_CS
ABP_BA0
ABP_BA1
R9397
R9398
1k 1%
C9335
16V 0.1u
C9338
16V
0.1u
C9332
16V
0.1u
C9327
16V
4.7u
DQ31
VSS
VDDQ
N.C
VSSQ
DQS
VDD
DQ0
DQ27
VDDQ
DQ28
DQ3
DQ4
CKE
A8/AP
BA1
BA0
^CS
A4
A9
A10
A3
A7
A6
A5
A0
A1
A2
VREF
DM3
DM1
CLK
^CLK
DM0
DM2
^WE
^CAS
^RAS
DA
DB
DC
DD
DE

14.29. D-Board (6 of 15) Schematic Diagram


D-BOARD TZTNP01QJSU (6/15)
A
B
C
D
E
F
G
H
I
F
G
H
I
J
1
2
3
4
STB5V_S
STB5V_M
Q9702
2SB14400HL
R9736
2.7k
R9734
1k
R9737
1k
R9735
10k
Q9701
2SD0601A0L
D9715
MAZ30620ML
C9706
16V
0.1u
C9708
16V
47u
C9707
16V
0.1u
C9718
16V
0.1u
C9719
16V
4.7u
3.3V
R9738
2.7k
R9739
2.7k
5V <-> 3.3V
AJ_SCL2
AR_SCL2
Q9704
B1CBHD000001
AJ_SDA2
AR_SDA2
Q9703
B1CBHD000001
L9701
ELKE103FA
STB5V
R9996
0
R9733
5.6k
IIC CONT
R9949
10k
AJ_IIC_CONT
R9732
100
D4
C9703
50V
100p
D9711
MAZ30620ML
Q9719
B1CBHD000001
C9700
16V 0.1u
AK_IIC_CONT
IIC_CONT
GND
AK_SCL1
SCL1
AK_SDA1
SDA1
AK_SCL2
SCL2
AK_SDA2
SDA2
AK_SCL3
SCL3
AK_SDA3
SDA3
IRQ
RST
GND
R9701 100
R9702 68
R9703 100
R9704 100
R9705 100
R9706 100
R9707 100
R9708 100
AR_SCL1
AR_SDA1
AR_SCL2
AR_SDA2
AR_SCL3
AR_SDA3
AR_IIC_INT
VDD
VSS
IC9711
C0JBAS000109
SW
D9706
MAZ30620ML
D9708
MAZ30620ML
D9710
MAZ30620ML
D9713
MAZ30620ML
D9705
MAZ30620ML
D9707
MAZ30620ML
D9709
MAZ30620ML
D9712
MAZ30620ML
AO_A5
AO_A6
AO_A7
AO_A8
AO_A9
AO_A10
AO_A11
AO_A12
AO_A13
AO_A14
AO_A15
AO_A16
AO_A17
AO_A18
D9716
MA2J11100L
R9750
1k
R9753
100
R9751
EXB38V103JV
AR_SCL1
AR_SDA1
STB5V_M
R9741
4.7k
R9758
10k
Q9710
2SB0709A0L
R9748
0
R9747
1k
R9745
10k
AR_IIC_INT
C9712
50V
100p
C9705
50V
1000p
C9713
50V
100p
R9755
2.7k
R9754
EXB38V272JV
R9756
2.7k
R9888
10k
C9714
50V
100p
C9715
50V
100p
AA_DRVMUTE_M5V
AN_NO_SYNC
TO
SC-BOARD
(SC20)
P5V
C9701
16V
0.1u
C9702
16V
47u
D20
CL
CLK
SIU
SID
SCSU
CPL
CPH
SOS1
SOS2
CEL
CEH
CSL
CSH
CML
CMH
RES
R9710 150
R9711 150
R9712 150
R9713 150
R9714 150
R9715 150
R9716 150
R9700 0
R9717 0
R9719 150
R9720 150
R9721 150
R9722 150
R9723 150
R9724 150
AAY_CL
AAY_CLK
AAY_SIU
AAY_SID
AAY_SCSU
AAY_CPL
AAY_CPH
AA_SOS1
AA_SOS2
AAZ_CEL
AAZ_CEH
AAZ_CSL
AAZ_CSH
AAZ_CML
AAZ_CMH
R9709
47k

TH-42PHD6/TH-42PHW6 D-BOARD (6 of 15) Schematic Diagram


IC9701
MN102L230
MICRO PROCESSOR
IC9702
C3EBJC000038
EEPROM
X9701
H0J245500024
X9703
H0J200500016
Q9707
2SB0709A0L
D9716
MA2J11100L
R9751
EXB38V103JV
R9754
EXB38V272JV
R9762
EXB38V103JV
R9768
EXB38V470JV
R9769
EXB38VR000V
R9771
EXB38VR000V
R9785
EXB38VR000V
R9786
EXB38VR000V
STB5V_M
AR_SCL1
AR_SDA1
AA_DRVMUTE_M5V
AAE_MCCLK
AAE_MCDATA
AR_SCL3
AR_SDA3
AR_SCL2
AR_SDA2
AA_CATS_EYE
AAE_MCLD
AA_CABLE_DET
AN_CLKC
ABL_C
ABL_B
ABL_A
75.P16 IIC EX. CONT
76.NIRQ1 IIC_INT
77.NIRQ2
78.P27 V-MUTE(DRIVER)
79.VDD
80.VSS
81.TESTIN
82.MUSKIK
83.MUSIB
84.MUSID
P22 FPGA_LD
P23 FPGA_CHIP SEL
P24 FPGA DATA
P25 CABLE_DET
P26 POW_STATUS(TUNER)
P00 A-MUTE
P04 RESET_OUT
P05 NO_SYNC
P11 SCL1
P12 SDA1
I
J
K
11
12
13
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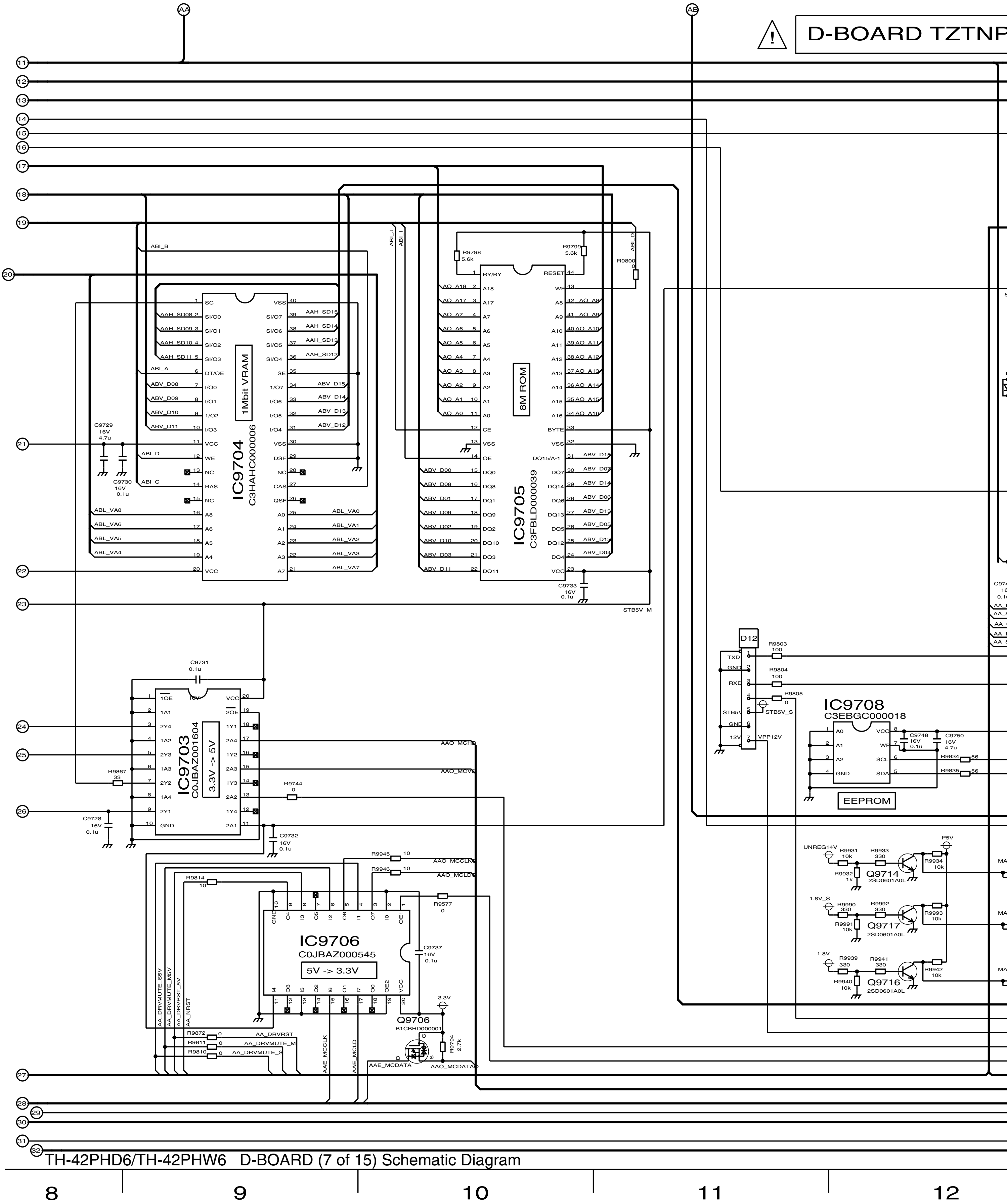
TH-42PHD6/TH-42PHW6 D-BOARD (6 of 15) Schematic Diagram

5 6 7 8

14.30. D-Board (7 of 15) Schematic Diagram



AA
AB
D-BOARD TZTNP
11
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16
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25
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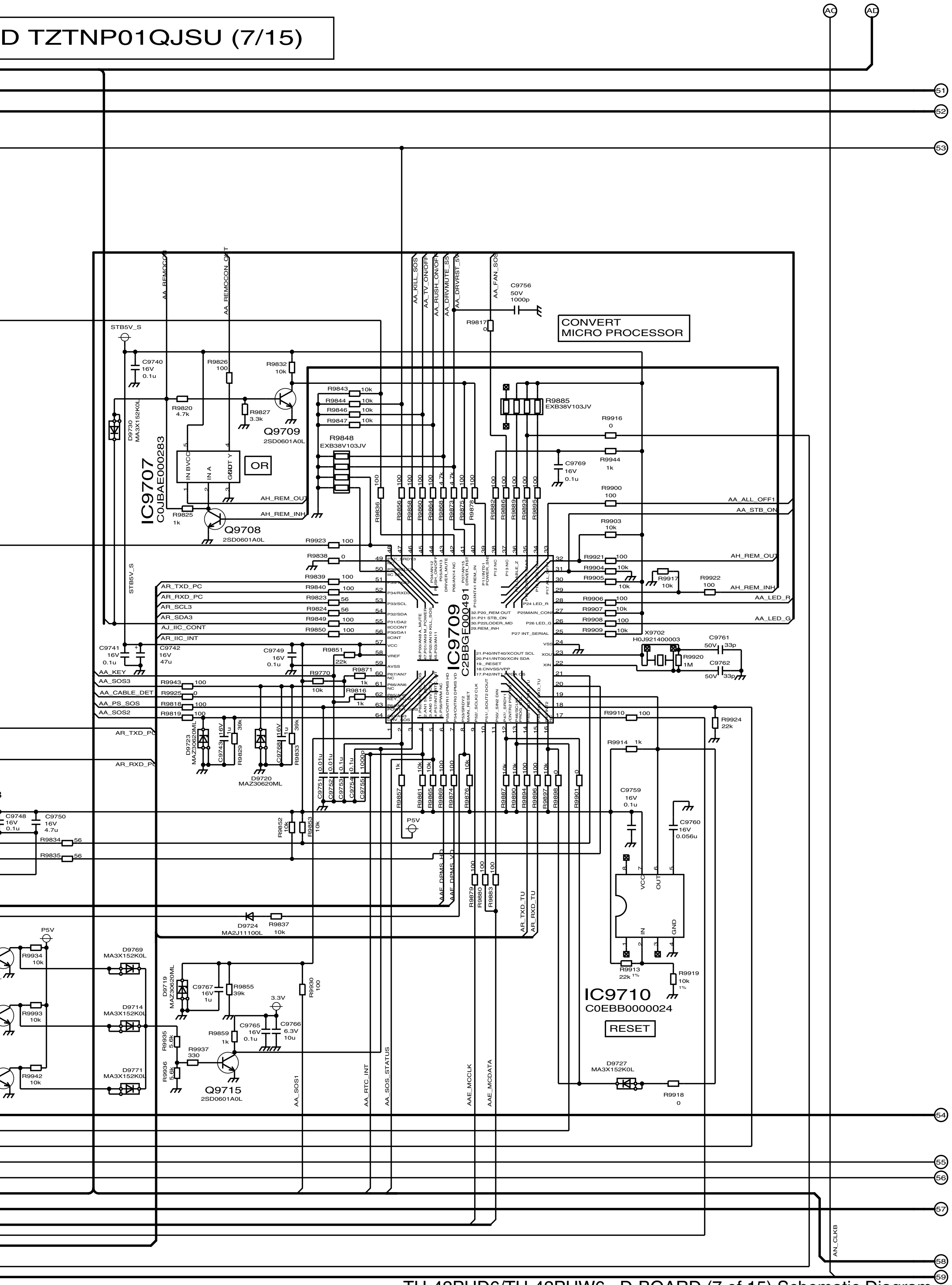
27
28
29
30
31
32
IC9704
C3HAHC000006
1Mbit VRAM
SC
SI/O0
SI/O1
SI/O2
SI/O3
DT/OE
I/O0
I/O1
I/O2
I/O3
VCC
WE
NC
RAS
A8
A6
A5
A4
VSS
SI/O7
SI/O6
SI/O5
SI/O4
SE
I/O7
I/O6
I/O5
I/O4
DSF
CAS
QSF
A0
A1
A2
A3
A7
ABI_B
ABI_A
ABI_D
ABI_C
AAH_SD08
AAH_SD09
AAH_SD10
AAH_SD11
AAH_SD15
AAH_SD14
AAH_SD13
AAH_SD12
ABV_D08
ABV_D09
ABV_D10
ABV_D11
ABV_D15
ABV_D14
ABV_D13
ABV_D12
ABL_VA8
ABL_VA6
ABL_VA5
ABL_VA4
ABL_VA0
ABL_VA1
ABL_VA2
ABL_VA3
ABL_VA7
C9729 16V 4.7u
C9730 16V 0.1u
IC9705
C3FBLD000039
8M ROM
RY/BY
A18
A17
A7
A6
A5
A4
A3
A2
A1
A0
CE
VSS
OE
DQ0
DQ8
DQ1
DQ9
DQ2
DQ10
DQ3
DQ11
RESET
WE
A8
A9
A10
A11
A12
A13
A14
A15
A16
BYTE
DQ15/A-1
DQ7
DQ14
DQ6
DQ13
DQ5
DQ12
DQ4
AO_A18
AO_A17
AO_A7
AO_A6
AO_A5
AO_A4
AO_A3
AO_A2
AO_A1
AO_A0
AO_A8
AO_A9
AO_A10
AO_A11
AO_A12
AO_A13
AO_A14
AO_A15
AO_A16
ABV_D00
ABV_D08
ABV_D01
ABV_D09
ABV_D02
ABV_D10
ABV_D03
ABV_D11
ABV_D15
ABV_D07
ABV_D14
ABV_D06
ABV_D13
ABV_D05
ABV_D12
ABV_D04
ABI_J
ABI_I
ABI_D
R9798 5.6k
R9799 5.6k
R9800 0
C9733 16V 0.1u
STB5V_M
C9731 0.1u
IC9703
C0JBAZ001604
3.3V -> 5V
1OE
1A1
2Y4
1A2
2Y3
1A3
2Y2
1A4
2Y1
GND
VCC
2OE
1Y1
2A4
1Y2
2A3
1Y3
2A2
1Y4
2A1
16V
R9867 33
C9728 16V 0.1u
C9732 16V 0.1u
R9744 0
AAO_MCHD
AAO_MCVD
R9945 10
R9946 10
AAO_MCCLK
AAO_MCLD
R9814 10
R9577 0
IC9706
C0JBAZ000545
5V -> 3.3V
GND
O4
I3
O5
I2
O6
I1
O7
I0
OE1
I4
O3
I5
O2
I6
O1
I7
O0
OE2
VCC
C9737 16V 0.1u
3.3V
Q9706
B1CBHD000001
R9794 2.7k
AA_DRVMUTE_S5V
AA_DRVMUTE_M5V
AA_DRVRST_5V
AA_NRST
R9872 0
R9811 0
R9810 0
AA_DRVRST
AA_DRVMUTE_M
AA_DRVMUTE_S
AAE_MCCLK
AAE_MCLD
AAE_MCDATA
AAO_MCDATA
D12
TXD
GND
RXD
STB5V
GND
12V
R9803 100
R9804 100
R9805 0
STB5V_S
VPP12V
IC9708
C3EBGC000018
A0
A1
A2
GND
VCC
WP
SCL
SDA
C9748 16V 0.1u
C9750 16V 4.7u
R9834 56
R9835 56
EEPROM
UNREG14V
R9931 10k
R9933 330
R9932 1k
Q9714
2SD0601A0L
R9934 10k
P5V
1.8V_S
R9990 330
R9992 330
R9991 10k
Q9717
2SD0601A0L
R9993 10k
1.8V
R9939 330
R9941 330
R9940 10k
Q9716
2SD0601A0L
R9942 10k
8
9
10
11
12

TH-42PHD6/TH-42PHW6 D-BOARD (7 of 15) Schematic Diagram

D TZTNP01QJSU (7/15)

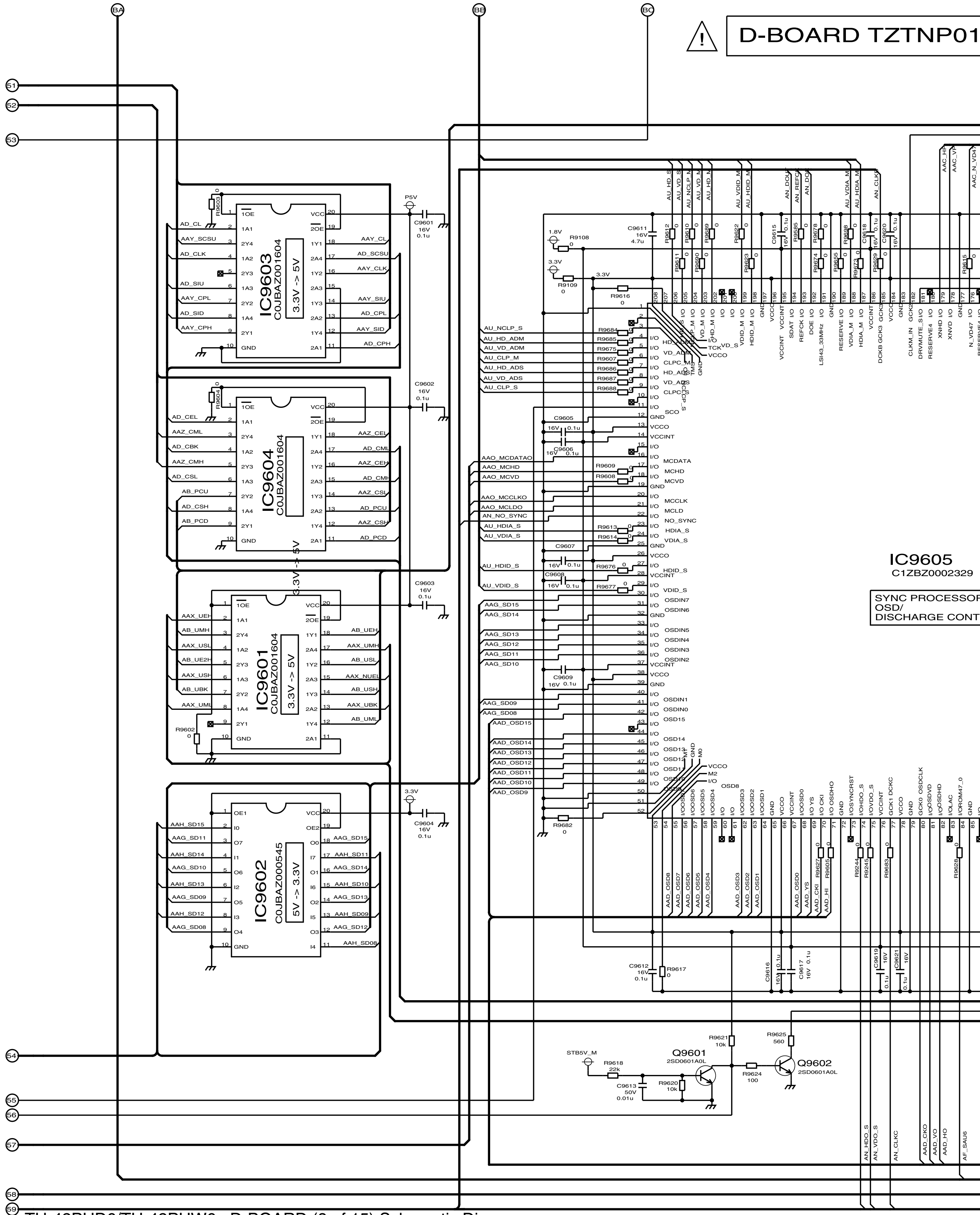


AC
AD
51
52
53
54
55
56
57
58
59
CONVERT
MICRO PROCESSOR
IC9709
C2BBGF000491
IC9707
C0JBAE000283
OR
IC9710
C0EBB0000024
RESET
Q9708
2SD0601A0L
Q9709
2SD0601A0L
Q9715
2SD0601A0L
R9885
EXB38V103JV
R9848
EXB38V103JV
X9702
H0J921400003
D9730
MA3X152K0L
D9723
MAZ30620ML
D9720
MAZ30620ML
D9724
MA2J11100L
D9719
MAZ30620ML
D9769
MA3X152K0L
D9714
MA3X152K0L
D9771
MA3X152K0L
D9727
MA3X152K0L
STB5V_S
P5V
3.3V
AA_REMOCON
AA_REMOCON_OUT
AA_KILL_SOS
AA_TV_ON/OFF
AA_RUSH_ON/OFF
AA_DRVMUTE_5V
AA_DRVRST_5V
AA_FAN_SOS
AH_REM_OUT
AH_REM_INH
AA_ALL_OFF1
AA_STB_ON
AA_LED_R
AA_LED_G
AR_TXD_PC
AR_RXD_PC
AR_SCL3
AR_SDA3
AJ_IIC_CONT
AR_IIC_INT
AA_KEY
AA_SOS3
AA_CABLE_DET
AA_PS_SOS
AA_SOS2
AAE_DPMS_HD
AAE_DPMS_VD
AR_TXD_TU
AR_RXD_TU
AA_SOS1
AA_RTC_INT
AA_SOS_STATUS
AAE_MCCLK
AAE_MCDATA
AN_CLKB

TH-42PHD6/TH-42PHW6 D-BOARD (7 of 15) Schematic Diagram

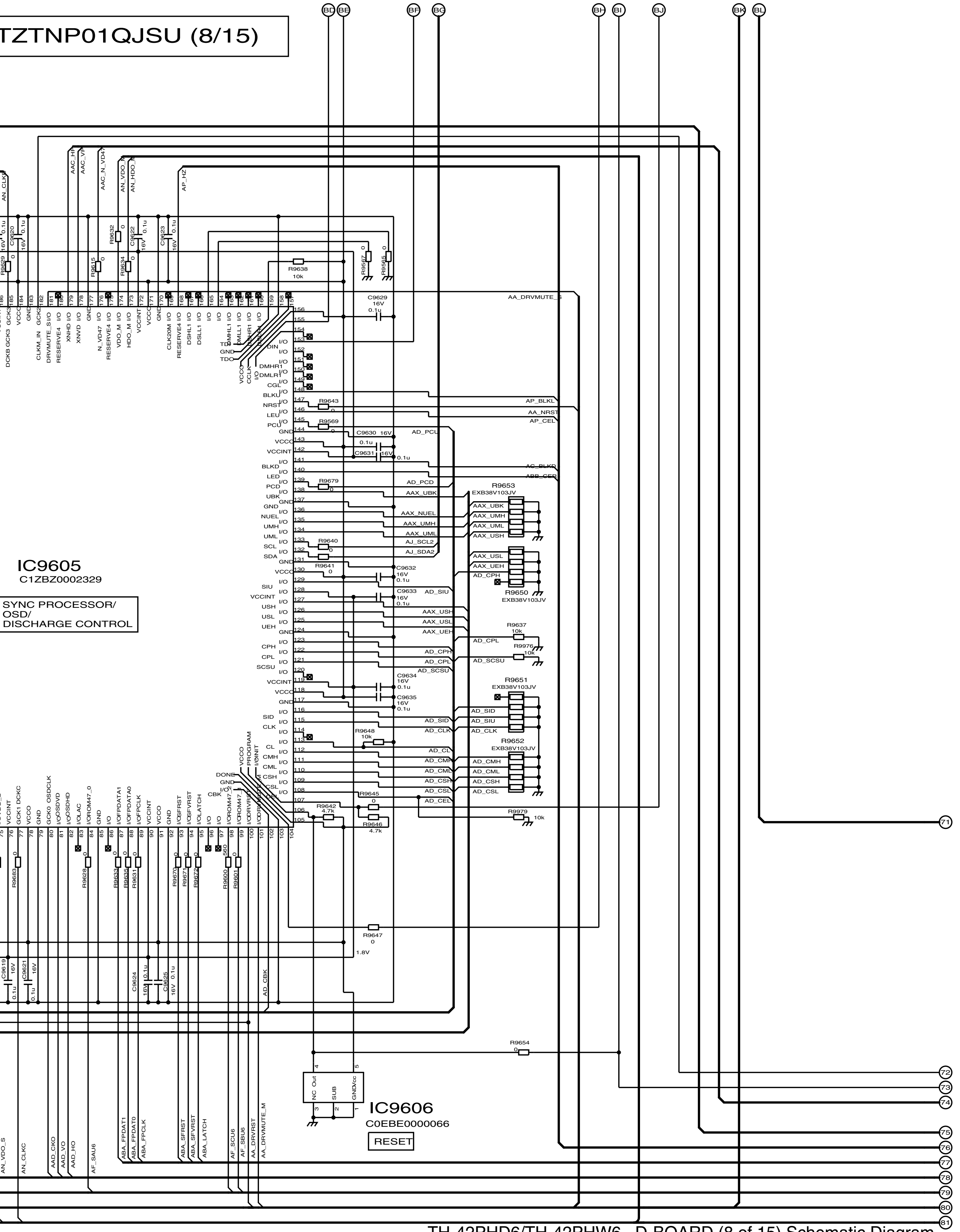
12 13 14 15

14.31. D-Board (8 of 15) Schematic Diagram



BA
BB
BC
D-BOARD TZTNP01
51
52
53
54
55
56
57
58
59
IC9603
C0JBAZ001604
3.3V -> 5V
R9603
0
P5V
C9601
16V
0.1u
AD_CL
AAY_SCSU
AD_CLK
AD_SIU
AAY_CPL
AD_SID
AAY_CPH
AAY_CL
AD_SCSU
AAY_CLK
AAY_SIU
AD_CPL
AAY_SID
AD_CPH
IC9604
C0JBAZ001604
3.3V -> 5V
R9604
0
C9602
16V
0.1u
AD_CEL
AAZ_CML
AD_CBK
AAZ_CMH
AD_CSL
AB_PCU
AD_CSH
AB_PCD
AAZ_CEL
AD_CML
AAZ_CEH
AD_CMH
AAZ_CSL
AD_PCU
AAZ_CSH
AD_PCD
IC9601
C0JBAZ001604
3.3V -> 5V
C9603
16V
0.1u
R9602
0
AAX_UEH
AB_UMH
AAX_USL
AB_UE2H
AAX_USH
AB_UBK
AAX_UML
AB_UEH
AAX_UMH
AB_USL
AAX_NUEL
AB_USH
AAX_UBK
AB_UML
IC9602
C0JBAZ000545
5V -> 3.3V
3.3V
C9604
16V
0.1u
AAH_SD15
AAG_SD11
AAH_SD14
AAG_SD10
AAH_SD13
AAG_SD09
AAH_SD12
AAG_SD08
AAG_SD15
AAH_SD11
AAG_SD14
AAH_SD10
AAG_SD13
AAH_SD09
AAG_SD12
AAH_SD08
1.8V
R9108
0
3.3V
R9109
0
C9611
16V
4.7u
R9616
0
AU_NCLP_S
AU_HD_ADM
AU_VD_ADM
AU_CLP_M
AU_HD_ADS
AU_VD_ADS
AU_CLP_S
AAO_MCDATAO
AAO_MCHD
AAO_MCVD
AAO_MCCLKO
AAO_MCLDO
AN_NO_SYNC
AU_HDIA_S
AU_VDIA_S
AU_HDID_S
AU_VDID_S
AAG_SD15
AAG_SD14
AAG_SD13
AAG_SD12
AAG_SD11
AAG_SD10
AAG_SD09
AAG_SD08
AAD_OSD15
AAD_OSD14
AAD_OSD13
AAD_OSD12
AAD_OSD11
AAD_OSD10
AAD_OSD9
C9605
16V 0.1u
C9606
16V 0.1u
C9607
16V 0.1u
C9608
16V 0.1u
C9609
16V 0.1u
R9682
0
IC9605
C1ZBZ0002329
SYNC PROCESSOR
OSD/
DISCHARGE CONT
MCDATA
MCHD
MCVD
MCCLK
MCLD
NO_SYNC
HDIA_S
VDIA_S
HDID_S
VDID_S
OSDIN7
OSDIN6
OSDIN5
OSDIN4
OSDIN3
OSDIN2
OSDIN1
OSDIN0
OSD15
OSD14
OSD13
OSD12
OSD11
OSD10
OSD9
OSD8
AAD_OSD8
AAD_OSD7
AAD_OSD6
AAD_OSD5
AAD_OSD4
AAD_OSD3
AAD_OSD2
AAD_OSD1
AAD_OSD0
AAD_YS
AAD_CKI
AAD_HI
C9612
16V
0.1u
R9617
0
C9616
16V 0.1u
C9617
16V 0.1u
C9619
16V 0.1u
C9621
16V 0.1u
STB5V_M
R9618
22k
C9613
50V
0.01u
R9620
10k
Q9601
2SD0601A0L
R9621
10k
R9624
100
R9625
560
Q9602
2SD0601A0L
AN_HDO_S
AN_VDO_S
AN_CLKC
AAD_CKO
AAD_VO
AAD_HO
AF_SAU6

TZTNP01QJSU (8/15)



BD
BE
BF
BG
BH
BI
BJ
BK
BL
IC9605
C1ZBZ0002329
SYNC PROCESSOR/
OSD/
DISCHARGE CONTROL
IC9606
C0EBE0000066
RESET
NC
Out
SUB
GND
Vcc
R9653
EXB38V103JV
R9650
EXB38V103JV
R9651
EXB38V103JV
R9652
EXB38V103JV
R9637
10k
R9976
10k
R9979
10k
R9638
10k
R9648
10k
R9642
4.7k
R9646
4.7k
R9645
0
R9647
0
R9654
0
R9643
0
R9569
0
R9679
0
R9640
0
R9641
0
C9629
16V
0.1u
C9630
16V
0.1u
C9631
16V
0.1u
C9632
16V
0.1u
C9633
16V
0.1u
C9634
16V
0.1u
C9635
16V
0.1u
1.8V
AA_DRVMUTE_S
AP_BLKL
AA_NRST
AP_CEL
AD_PCU
AC_BLKD
ABB_CED
AD_PCD
AAX_UBK
AAX_NUEL
AAX_UMH
AAX_UML
AAX_USH
AAX_USL
AAX_UEH
AJ_SCL2
AJ_SDA2
AD_SIU
AD_CPH
AD_CPL
AD_SCSU
AD_SID
AD_CLK
AD_CL
AD_CMH
AD_CML
AD_CSH
AD_CSL
AD_CEL
AN_CLKI
AAC_HD
AAC_VD
AAC_N_VD47
AN_VDO_M
AN_HDO_M
AP_HZ
AN_VDO_S
AN_CLKC
AAD_CKO
AAD_VO
AAD_HO
AF_SAU6
ABA_FPDAT1
ABA_FPDAT0
ABA_FPCLK
ABA_SFRST
ABA_SFVRST
ABA_LATCH
AF_SCU6
AF_SBU6
AA_DRVRST
AA_DRVMUTE_M
AD_CBK
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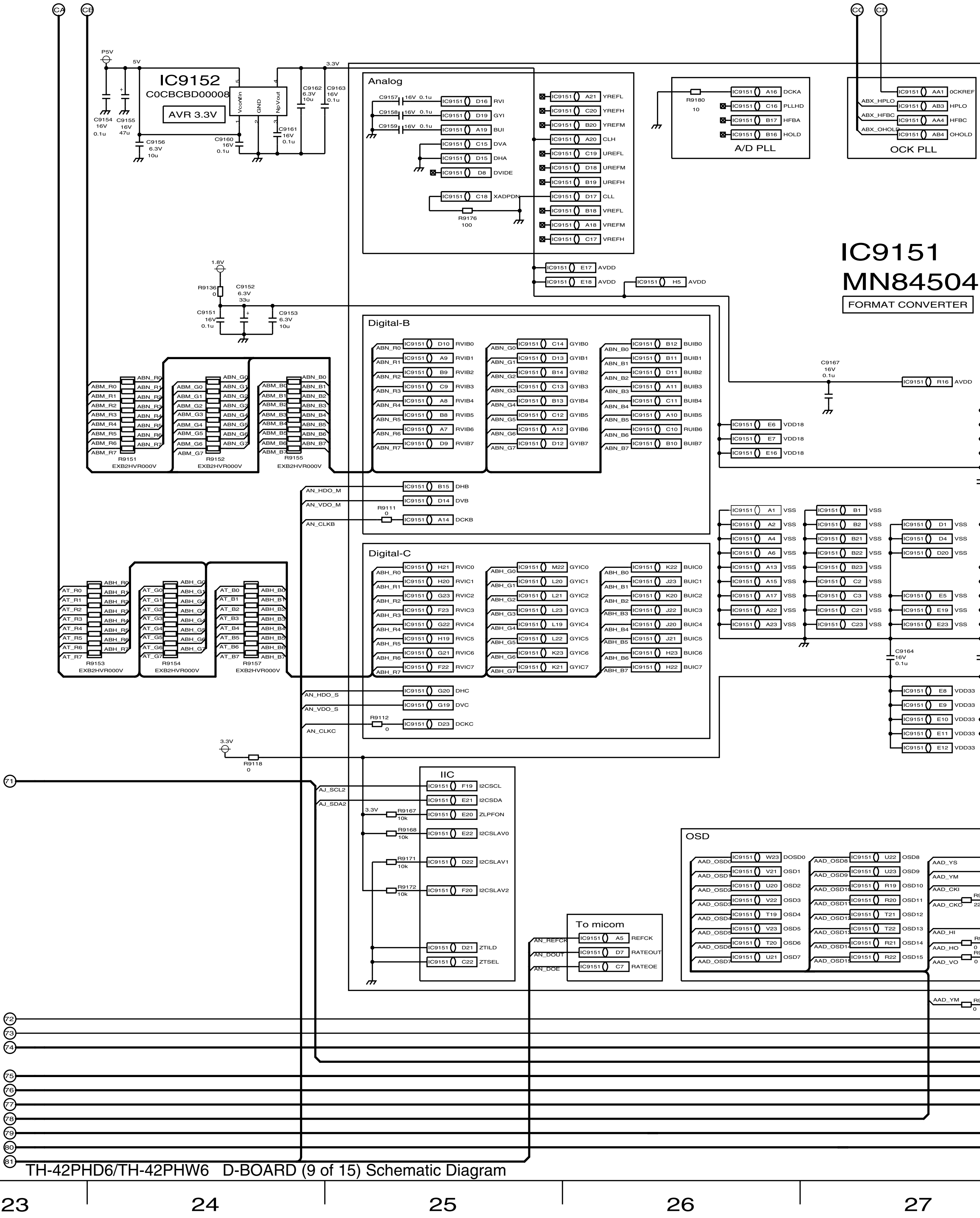
TH-42PHD6/TH-42PHW6 D-BOARD (8 of 15) Schematic Diagram

14.32. D-Board (9 of 15) Schematic Diagram


CA
CB
CC
CD
P5V
5V
3.3V
IC9152
C0CBCBD00008
AVR 3.3V
Vcont
Vin
GND
Np
Vout
C9154 16V 0.1u
C9155 16V 47u
C9156 6.3V 10u
C9160 16V 0.1u
C9161 16V 0.1u
C9162 6.3V 10u
C9163 16V 0.1u
Analog
C9157 16V 0.1u
C9158 16V 0.1u
C9159 16V 0.1u
IC9151 D16 RVI
IC9151 D19 GYI
IC9151 A19 BUI
IC9151 C15 DVA
IC9151 D15 DHA
IC9151 D8 DVIDE
IC9151 C18 XADPDN
R9176 100
IC9151 A21 YREFL
IC9151 C20 YREFH
IC9151 B20 YREFM
IC9151 A20 CLH
IC9151 C19 UREFL
IC9151 D18 UREFM
IC9151 B19 UREFH
IC9151 D17 CLL
IC9151 B18 VREFL
IC9151 A18 VREFM
IC9151 C17 VREFH
IC9151 E17 AVDD
IC9151 E18 AVDD
IC9151 H5 AVDD
R9180 10
IC9151 A16 DCKA
IC9151 C16 PLLHD
IC9151 B17 HFBA
IC9151 B16 HOLD
A/D PLL
ABX_HPLO
ABX_HFBC
ABX_OHOLD
IC9151 AA1 0CKREF
IC9151 AB3 HPLO
IC9151 AA4 HFBC
IC9151 AB4 OHOLD
OCK PLL
IC9151
MN84504
FORMAT CONVERTER
1.8V
R9136 0
C9152 6.3V 33u
C9151 16V 0.1u
C9153 6.3V 10u
Digital-B
ABN_R0 … ABN_R7
ABN_G0 … ABN_G7
ABN_B0 … ABN_B7
ABM_R0 … ABM_R7
ABM_G0 … ABM_G7
ABM_B0 … ABM_B7
R9151 EXB2HVR000V
R9152 EXB2HVR000V
R9155 EXB2HVR000V
IC9151 D10 RVIB0
IC9151 A9 RVIB1
IC9151 B9 RVIB2
IC9151 C9 RVIB3
IC9151 A8 RVIB4
IC9151 B8 RVIB5
IC9151 A7 RVIB6
IC9151 D9 RVIB7
IC9151 C14 GYIB0
IC9151 D13 GYIB1
IC9151 B14 GYIB2
IC9151 C13 GYIB3
IC9151 B13 GYIB4
IC9151 C12 GYIB5
IC9151 A12 GYIB6
IC9151 D12 GYIB7
IC9151 B12 BUIB0
IC9151 B11 BUIB1
IC9151 D11 BUIB2
IC9151 C11 BUIB3
IC9151 C11 BUIB4
IC9151 A10 BUIB5
IC9151 C10 RUIB6
IC9151 B10 BUIB7
AN_HDO_M
AN_VDO_M
AN_CLKB
R9111 0
IC9151 B15 DHB
IC9151 D14 DVB
IC9151 A14 DCKB
C9167 16V 0.1u
IC9151 R16 AVDD
IC9151 E6 VDD18
IC9151 E7 VDD18
IC9151 E16 VDD18
Digital-C
ABH_R0 … ABH_R7
ABH_G0 … ABH_G7
ABH_B0 … ABH_B7
AT_R0 … AT_R7
AT_G0 … AT_G7
AT_B0 … AT_B7
R9153 EXB2HVR000V
R9154 EXB2HVR000V
R9157 EXB2HVR000V
IC9151 H21 RVIC0
IC9151 H20 RVIC1
IC9151 G23 RVIC2
IC9151 F23 RVIC3
IC9151 G22 RVIC4
IC9151 H19 RVIC5
IC9151 G21 RVIC6
IC9151 F22 RVIC7
IC9151 M22 GYIC0
IC9151 L20 GYIC1
IC9151 L21 GYIC2
IC9151 L23 GYIC3
IC9151 L19 GYIC4
IC9151 L22 GYIC5
IC9151 K23 GYIC6
IC9151 K21 GYIC7
IC9151 K22 BUIC0
IC9151 J23 BUIC1
IC9151 K20 BUIC2
IC9151 J22 BUIC3
IC9151 J20 BUIC4
IC9151 J21 BUIC5
IC9151 H23 BUIC6
IC9151 H22 BUIC7
AN_HDO_S
AN_VDO_S
AN_CLKC
R9112 0
IC9151 G20 DHC
IC9151 G19 DVC
IC9151 D23 DCKC
IC9151 A1 VSS
IC9151 A2 VSS
IC9151 A4 VSS
IC9151 A6 VSS
IC9151 A13 VSS
IC9151 A15 VSS
IC9151 A17 VSS
IC9151 A22 VSS
IC9151 A23 VSS
IC9151 B1 VSS
IC9151 B2 VSS
IC9151 B21 VSS
IC9151 B22 VSS
IC9151 B23 VSS
IC9151 C2 VSS
IC9151 C3 VSS
IC9151 C21 VSS
IC9151 C23 VSS
IC9151 D1 VSS
IC9151 D4 VSS
IC9151 D20 VSS
IC9151 E5 VSS
IC9151 E19 VSS
IC9151 E23 VSS
C9164 16V 0.1u
IC9151 E8 VDD33
IC9151 E9 VDD33
IC9151 E10 VDD33
IC9151 E11 VDD33
IC9151 E12 VDD33
R9118 0
IIC
AJ_SCL2
AJ_SDA2
R9167 10k
R9168 10k
R9171 10k
R9172 10k
IC9151 F19 I2CSCL
IC9151 E21 I2CSDA
IC9151 E20 ZLPFON
IC9151 E22 I2CSLAV0
IC9151 D22 I2CSLAV1
IC9151 F20 I2CSLAV2
IC9151 D21 ZTILD
IC9151 C22 ZTSEL
To micom
AN_REFCK
AN_DOUT
AN_DOE
IC9151 A5 REFCK
IC9151 D7 RATEOUT
IC9151 C7 RATEOE
OSD
AAD_OSD0 … AAD_OSD15
IC9151 W23 DOSD0
IC9151 V21 OSD1
IC9151 U20 OSD2
IC9151 V22 OSD3
IC9151 T19 OSD4
IC9151 V23 OSD5
IC9151 T20 OSD6
IC9151 U21 OSD7
IC9151 U22 OSD8
IC9151 U23 OSD9
IC9151 R19 OSD10
IC9151 R20 OSD11
IC9151 T21 OSD12
IC9151 T22 OSD13
IC9151 R21 OSD14
IC9151 R22 OSD15
AAD_YS
AAD_YM
AAD_CKI
AAD_CKO
AAD_HI
AAD_HO
AAD_VO
AAD_YM
71
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TH-42PHD6/TH-42PHW6 D-BOARD (9 of 15) Schematic Diagram
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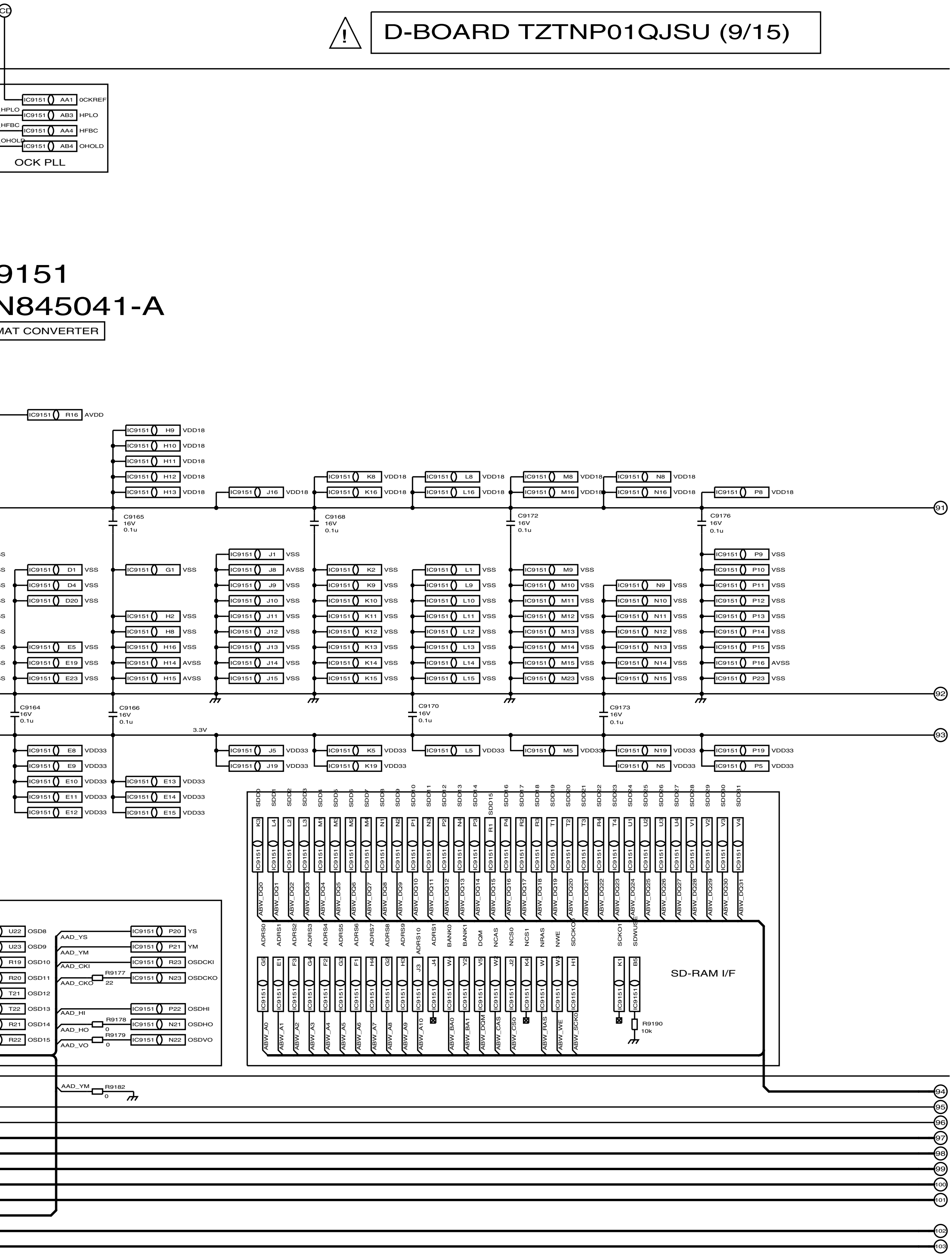
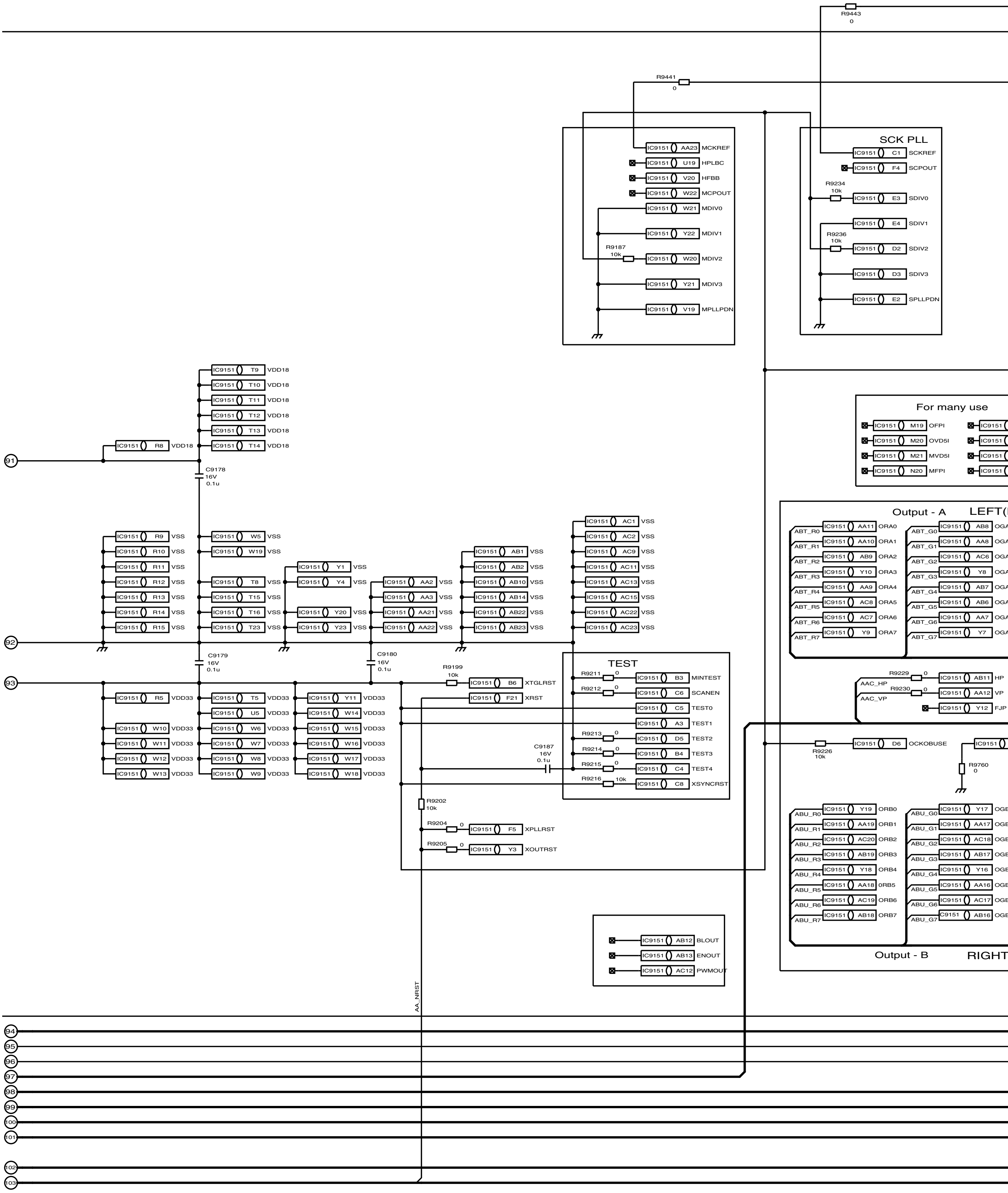
D-BOARD TZTNP01QJSU (9/15)


CD
IC9151 AA1 0CKREF
HPLO IC9151 AB3 HPLO
HFBC IC9151 AA4 HFBC
OHOLD IC9151 AB4 OHOLD
OCK PLL
9151
N845041-A
MAT CONVERTER
IC9151 R16 AVDD
IC9151 H9 VDD18
IC9151 H10 VDD18
IC9151 H11 VDD18
IC9151 H12 VDD18
IC9151 H13 VDD18
IC9151 J16 VDD18
IC9151 K8 VDD18
IC9151 K16 VDD18
IC9151 L8 VDD18
IC9151 L16 VDD18
IC9151 M8 VDD18
IC9151 M16 VDD18
IC9151 N8 VDD18
IC9151 N16 VDD18
IC9151 P8 VDD18
C9165 16V 0.1u
C9168 16V 0.1u
C9172 16V 0.1u
C9176 16V 0.1u
91
IC9151 D1 VSS
IC9151 D4 VSS
IC9151 D20 VSS
IC9151 E5 VSS
IC9151 E19 VSS
IC9151 E23 VSS
IC9151 G1 VSS
IC9151 H2 VSS
IC9151 H8 VSS
IC9151 H16 VSS
IC9151 H14 AVSS
IC9151 H15 AVSS
IC9151 J1 VSS
IC9151 J8 AVSS
IC9151 J9 VSS
IC9151 J10 VSS
IC9151 J11 VSS
IC9151 J12 VSS
IC9151 J13 VSS
IC9151 J14 VSS
IC9151 J15 VSS
IC9151 K2 VSS
IC9151 K9 VSS
IC9151 K10 VSS
IC9151 K11 VSS
IC9151 K12 VSS
IC9151 K13 VSS
IC9151 K14 VSS
IC9151 K15 VSS
IC9151 L1 VSS
IC9151 L9 VSS
IC9151 L10 VSS
IC9151 L11 VSS
IC9151 L12 VSS
IC9151 L13 VSS
IC9151 L14 VSS
IC9151 L15 VSS
IC9151 M9 VSS
IC9151 M10 VSS
IC9151 M11 VSS
IC9151 M12 VSS
IC9151 M13 VSS
IC9151 M14 VSS
IC9151 M15 VSS
IC9151 M23 VSS
IC9151 N9 VSS
IC9151 N10 VSS
IC9151 N11 VSS
IC9151 N12 VSS
IC9151 N13 VSS
IC9151 N14 VSS
IC9151 N15 VSS
IC9151 P9 VSS
IC9151 P10 VSS
IC9151 P11 VSS
IC9151 P12 VSS
IC9151 P13 VSS
IC9151 P14 VSS
IC9151 P15 VSS
IC9151 P16 AVSS
IC9151 P23 VSS
92
C9164 16V 0.1u
C9166 16V 0.1u
C9170 16V 0.1u
C9173 16V 0.1u
3.3V
93
IC9151 E8 VDD33
IC9151 E9 VDD33
IC9151 E10 VDD33
IC9151 E11 VDD33
IC9151 E12 VDD33
IC9151 E13 VDD33
IC9151 E14 VDD33
IC9151 E15 VDD33
IC9151 J5 VDD33
IC9151 J19 VDD33
IC9151 K5 VDD33
IC9151 K19 VDD33
IC9151 L5 VDD33
IC9151 M5 VDD33
IC9151 N19 VDD33
IC9151 N5 VDD33
IC9151 P19 VDD33
IC9151 P5 VDD33
SDD0 K3 ABW_DQ0
SDD1 L4 ABW_DQ1
SDD2 L2 ABW_DQ2
SDD3 L3 ABW_DQ3
SDD4 M3 ABW_DQ4
SDD5 M5 ABW_DQ5
SDD6 M2 ABW_DQ6
SDD7 M4 ABW_DQ7
SDD8 N1 ABW_DQ8
SDD9 N2 ABW_DQ9
SDD10 P1 ABW_DQ10
SDD11 N3 ABW_DQ11
SDD12 P2 ABW_DQ12
SDD13 N4 ABW_DQ13
SDD14 P3 ABW_DQ14
SDD15 R1 ABW_DQ15
SDD16 P4 ABW_DQ16
SDD17 R2 ABW_DQ17
SDD18 R3 ABW_DQ18
SDD19 T1 ABW_DQ19
SDD20 T2 ABW_DQ20
SDD21 T3 ABW_DQ21
SDD22 R4 ABW_DQ22
SDD23 T4 ABW_DQ23
SDD24 U1 ABW_DQ24
SDD25 U2 ABW_DQ25
SDD26 U3 ABW_DQ26
SDD27 U4 ABW_DQ27
SDD28 V1 ABW_DQ28
SDD29 V2 ABW_DQ29
SDD30 V3 ABW_DQ30
SDD31 V4 ABW_DQ31
ADRS0 G3 ABW_A0
ADRS1 E1 ABW_A1
ADRS2 F3 ABW_A2
ADRS3 G4 ABW_A3
ADRS4 F2 ABW_A4
ADRS5 G3 ABW_A5
ADRS6 F1 ABW_A6
ADRS7 H4 ABW_A7
ADRS8 G2 ABW_A8
ADRS9 H3 ABW_A9
ADRS10 J3 ABW_A10
ADRS11 J4
BANK0 W4 ABW_BA0
BANK1 Y2 ABW_BA1
DQM V5 ABW_DQM
NCAS W2 ABW_CAS
NCS0 J2 ABW_CS0
NCS1 K4
NRAS W1 ABW_RAS
NWE W3 ABW_WE
SDCKO H1 ABW_SCK0
SCKO1 K1
SDWUSE B5
R9190 10k
SD-RAM I/F
U22 OSD8
U23 OSD9
R19 OSD10
R20 OSD11
T21 OSD12
T22 OSD13
R21 OSD14
R22 OSD15
AAD_YS IC9151 P20 YS
AAD_YM IC9151 P21 YM
AAD_CKI IC9151 R23 OSDCKI
AAD_CKO R9177 22 IC9151 N23 OSDCKO
AAD_HI IC9151 P22 OSDHI
AAD_HO R9178 0 IC9151 N21 OSDHO
AAD_VO R9179 0 IC9151 N22 OSDVO
AAD_YM R9182 0
94
95
96
97
98
99
100
101
102
103

TH-42PHD6/TH-42PHW6 D-BOARD (9 of 15) Schematic Diagram

14.33. D-Board (10 of 15) Schematic Diagram


R9443
0
R9441
0
IC9151 AA23 MCKREF
IC9151 U19 HPLBC
IC9151 V20 HFBB
IC9151 W22 MCPOUT
IC9151 W21 MDIV0
IC9151 Y22 MDIV1
R9187
10k
IC9151 W20 MDIV2
IC9151 Y21 MDIV3
IC9151 V19 MPLLPDN
SCK PLL
IC9151 C1 SCKREF
IC9151 F4 SCPOUT
R9234
10k
IC9151 E3 SDIV0
IC9151 E4 SDIV1
R9236
10k
IC9151 D2 SDIV2
IC9151 D3 SDIV3
IC9151 E2 SPLLPDN
IC9151 T9 VDD18
IC9151 T10 VDD18
IC9151 T11 VDD18
IC9151 T12 VDD18
IC9151 T13 VDD18
IC9151 R8 VDD18
IC9151 T14 VDD18
91
C9178
16V
0.1u
For many use
IC9151 M19 OFPI
IC9151 M20 OVD5I
IC9151 M21 MVD5I
IC9151 N20 MFPI
IC9151 R9 VSS
IC9151 R10 VSS
IC9151 R11 VSS
IC9151 R12 VSS
IC9151 R13 VSS
IC9151 R14 VSS
IC9151 R15 VSS
IC9151 W5 VSS
IC9151 W19 VSS
IC9151 T8 VSS
IC9151 T15 VSS
IC9151 T16 VSS
IC9151 T23 VSS
IC9151 Y1 VSS
IC9151 Y4 VSS
IC9151 Y20 VSS
IC9151 Y23 VSS
IC9151 AA2 VSS
IC9151 AA3 VSS
IC9151 AA21 VSS
IC9151 AA22 VSS
IC9151 AB1 VSS
IC9151 AB2 VSS
IC9151 AB10 VSS
IC9151 AB14 VSS
IC9151 AB22 VSS
IC9151 AB23 VSS
IC9151 AC1 VSS
IC9151 AC2 VSS
IC9151 AC9 VSS
IC9151 AC11 VSS
IC9151 AC13 VSS
IC9151 AC15 VSS
IC9151 AC22 VSS
IC9151 AC23 VSS
92
C9179
16V
0.1u
C9180
16V
0.1u
93
R9199
10k
IC9151 B6 XTGLRST
IC9151 F21 XRST
IC9151 R5 VDD33
IC9151 W10 VDD33
IC9151 W11 VDD33
IC9151 W12 VDD33
IC9151 W13 VDD33
IC9151 T5 VDD33
IC9151 U5 VDD33
IC9151 W6 VDD33
IC9151 W7 VDD33
IC9151 W8 VDD33
IC9151 W9 VDD33
IC9151 Y11 VDD33
IC9151 W14 VDD33
IC9151 W15 VDD33
IC9151 W16 VDD33
IC9151 W17 VDD33
IC9151 W18 VDD33
TEST
R9211 0
IC9151 B3 MINTEST
R9212 0
IC9151 C6 SCANEN
IC9151 C5 TEST0
IC9151 A3 TEST1
R9213 0
IC9151 D5 TEST2
R9214 0
IC9151 B4 TEST3
C9187
16V
0.1u
R9215 0
IC9151 C4 TEST4
R9216 10k
IC9151 C8 XSYNCRST
R9202
10k
R9204 0
IC9151 F5 XPLLRST
R9205 0
IC9151 Y3 XOUTRST
IC9151 AB12 BLOUT
IC9151 AB13 ENOUT
IC9151 AC12 PWMOUT
AA_NRST
Output - A
LEFT(
ABT_R0 IC9151 AA11 ORA0
ABT_R1 IC9151 AA10 ORA1
ABT_R2 IC9151 AB9 ORA2
ABT_R3 IC9151 Y10 ORA3
ABT_R4 IC9151 AA9 ORA4
ABT_R5 IC9151 AC8 ORA5
ABT_R6 IC9151 AC7 ORA6
ABT_R7 IC9151 Y9 ORA7
ABT_G0 IC9151 AB8 OGA
ABT_G1 IC9151 AA8 OGA
ABT_G2 IC9151 AC6 OGA
ABT_G3 IC9151 Y8 OGA
ABT_G4 IC9151 AB7 OGA
ABT_G5 IC9151 AB6 OGA
ABT_G6 IC9151 AA7 OGA
ABT_G7 IC9151 Y7 OGA
R9229 0
AAC_HP
IC9151 AB11 HP
R9230 0
AAC_VP
IC9151 AA12 VP
IC9151 Y12 FJP
R9226
10k
IC9151 D6 OCKOBUSE
IC9151
R9760
0
ABU_R0 IC9151 Y19 ORB0
ABU_R1 IC9151 AA19 ORB1
ABU_R2 IC9151 AC20 ORB2
ABU_R3 IC9151 AB19 ORB3
ABU_R4 IC9151 Y18 ORB4
ABU_R5 IC9151 AA18 ORB5
ABU_R6 IC9151 AC19 ORB6
ABU_R7 IC9151 AB18 ORB7
ABU_G0 IC9151 Y17 OGE
ABU_G1 IC9151 AA17 OGE
ABU_G2 IC9151 AC18 OGE
ABU_G3 IC9151 AB17 OGE
ABU_G4 IC9151 Y16 OGE
ABU_G5 IC9151 AA16 OGE
ABU_G6 IC9151 AC17 OGE
ABU_G7 C9151 AB16 OGE
Output - B
RIGHT
94
95
96
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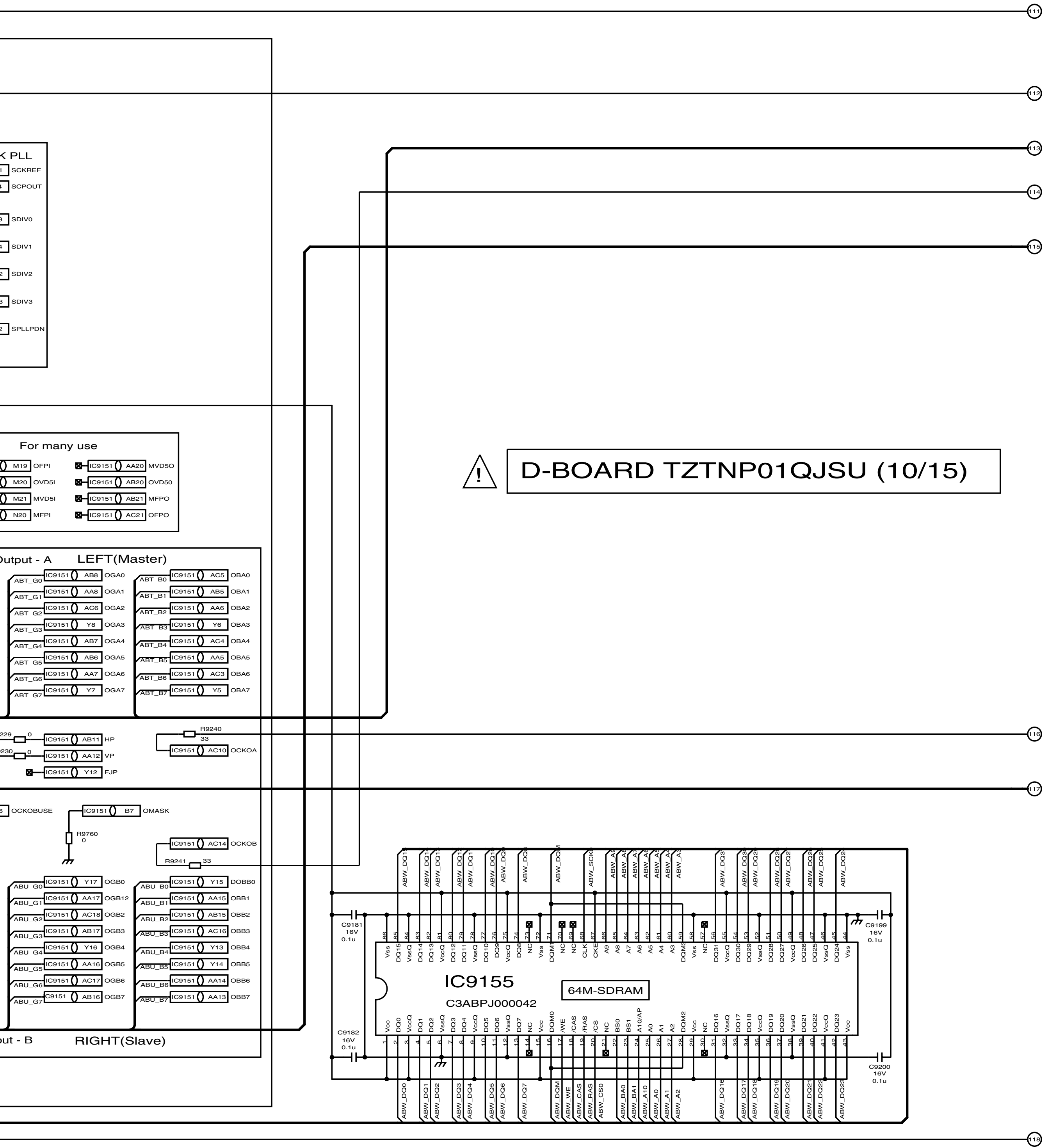
99
100
101
102
103

TH-42PHD6/TH-42PHW6 D-BOARD (10 of 15) Schematic Diagram

31 32 33 34



D-BOARD TZTNP01QJSU (10/15)
K PLL
SCKREF
SCPOUT
SDIV0
SDIV1
SDIV2
SDIV3
SPLLPDN
For many use
M19 OFPI
M20 OVD5I
M21 MVD5I
N20 MFPI
IC9151 AA20 MVD5O
IC9151 AB20 OVD5O
IC9151 AB21 MFPO
IC9151 AC21 OFPO
Output - A
LEFT(Master)
ABT_G0 IC9151 AB8 OGA0
ABT_G1 IC9151 AA8 OGA1
ABT_G2 IC9151 AC6 OGA2
ABT_G3 IC9151 Y8 OGA3
ABT_G4 IC9151 AB7 OGA4
ABT_G5 IC9151 AB6 OGA5
ABT_G6 IC9151 AA7 OGA6
ABT_G7 IC9151 Y7 OGA7
ABT_B0 IC9151 AC5 OBA0
ABT_B1 IC9151 AB5 OBA1
ABT_B2 IC9151 AA6 OBA2
ABT_B3 IC9151 Y6 OBA3
ABT_B4 IC9151 AC4 OBA4
ABT_B5 IC9151 AA5 OBA5
ABT_B6 IC9151 AC3 OBA6
ABT_B7 IC9151 Y5 OBA7
IC9151 AB11 HP
IC9151 AA12 VP
IC9151 Y12 FJP
R9240 33
IC9151 AC10 OCKOA
OCKOBUSE
IC9151 B7 OMASK
R9760 0
IC9151 AC14 OCKOB
R9241 33
ABU_G0 IC9151 Y17 OGB0
ABU_G1 IC9151 AA17 OGB12
ABU_G2 IC9151 AC18 OGB2
ABU_G3 IC9151 AB17 OGB3
ABU_G4 IC9151 Y16 OGB4
ABU_G5 IC9151 AA16 OGB5
ABU_G6 IC9151 AC17 OGB6
ABU_G7 IC9151 AB16 OGB7
ABU_B0 IC9151 Y15 DOBB0
ABU_B1 IC9151 AA15 OBB1
ABU_B2 IC9151 AB15 OBB2
ABU_B3 IC9151 AC16 OBB3
ABU_B4 IC9151 Y13 OBB4
ABU_B5 IC9151 Y14 OBB5
ABU_B6 IC9151 AA14 OBB6
ABU_B7 IC9151 AA13 OBB7
out - B
RIGHT(Slave)
IC9155
C3ABPJ000042
64M-SDRAM
C9181 16V 0.1u
C9182 16V 0.1u
C9199 16V 0.1u
C9200 16V 0.1u
Vss DQ15 VssQ DQ14 DQ13 VccQ DQ12 DQ11 VssQ DQ10 DQ9 VccQ DQ8 NC Vss DQM1 NC NC CLK CKE A9 A8 A7 A6 A5 A4 A3 DQM3 Vss NC DQ31 VccQ DQ30 DQ29 VssQ DQ28 DQ27 VccQ DQ26 DQ25 VssQ DQ24 Vss
Vcc DQ0 VccQ DQ1 DQ2 VssQ DQ3 DQ4 VccQ DQ5 DQ6 VssQ DQ7 NC Vcc DQM0 /WE /CAS /RAS /CS NC BS0 BS1 A10/AP A0 A1 A2 DQM2 Vcc NC DQ16 VssQ DQ17 DQ18 VccQ DQ19 DQ20 VssQ DQ21 DQ22 VccQ DQ23 Vcc
ABW_DQ0 ABW_DQ1 ABW_DQ2 ABW_DQ3 ABW_DQ4 ABW_DQ5 ABW_DQ6 ABW_DQ7 ABW_DQM ABW_WE ABW_CAS ABW_RAS ABW_CS0 ABW_BA0 ABW_BA1 ABW_A10 ABW_A0 ABW_A1 ABW_A2 ABW_DQ16 ABW_DQ17 ABW_DQ18 ABW_DQ19 ABW_DQ20 ABW_DQ21 ABW_DQ22 ABW_DQ23
ABW_SCK
111
112
113
114
115
116
117
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121
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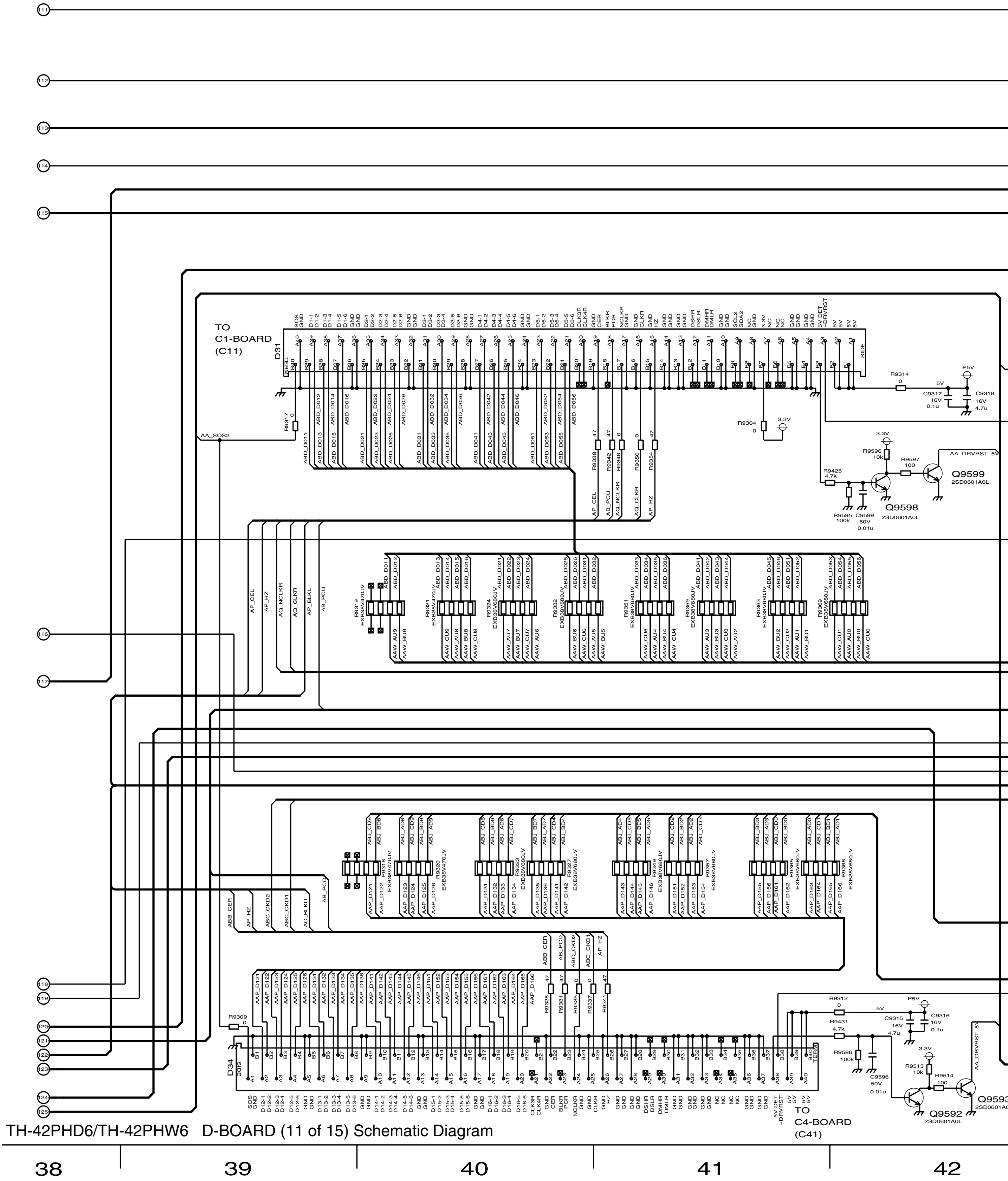
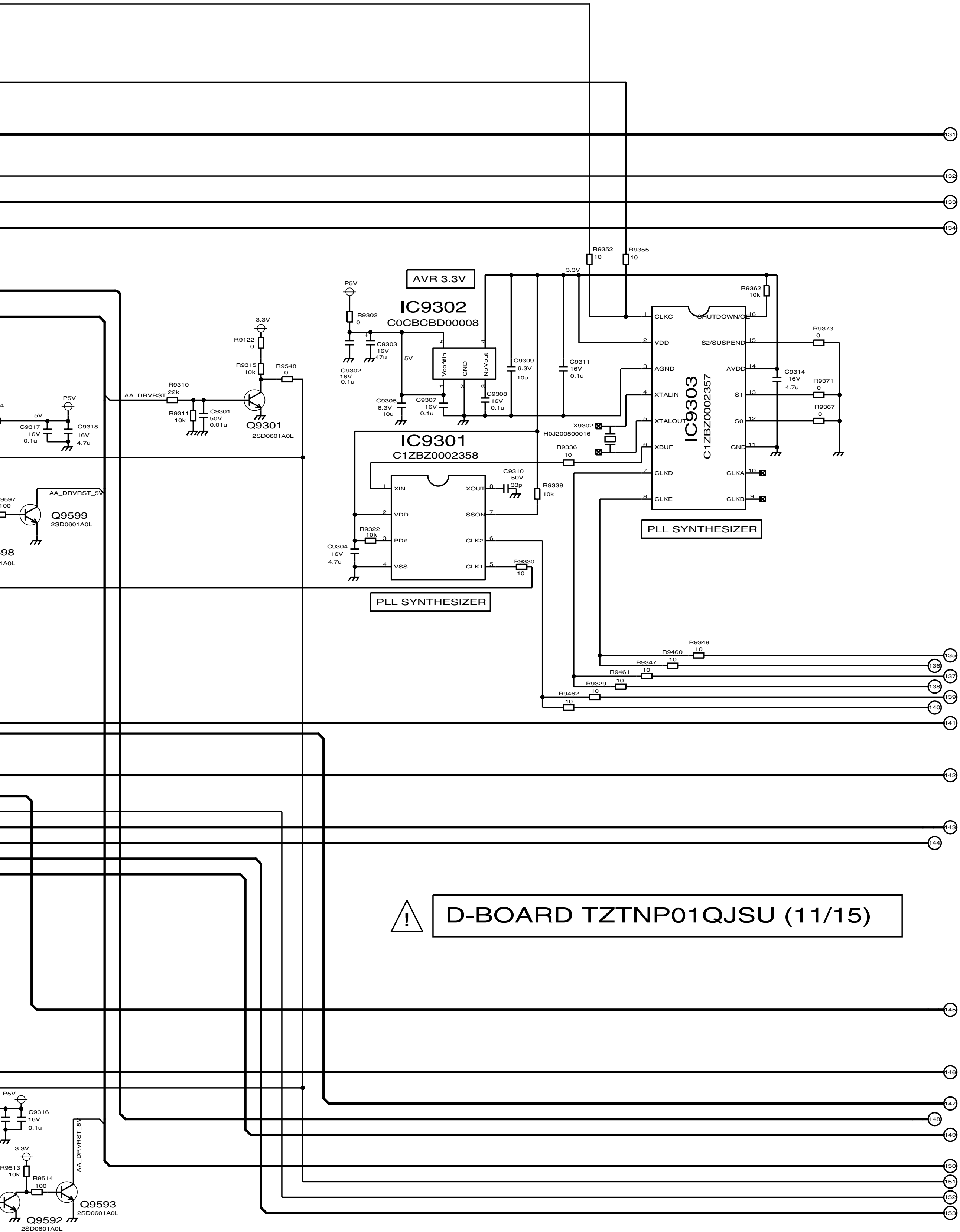
123
124
125

TH-42PHD6/TH-42PHW6 D-BOARD (10 of 15) Schematic Diagram

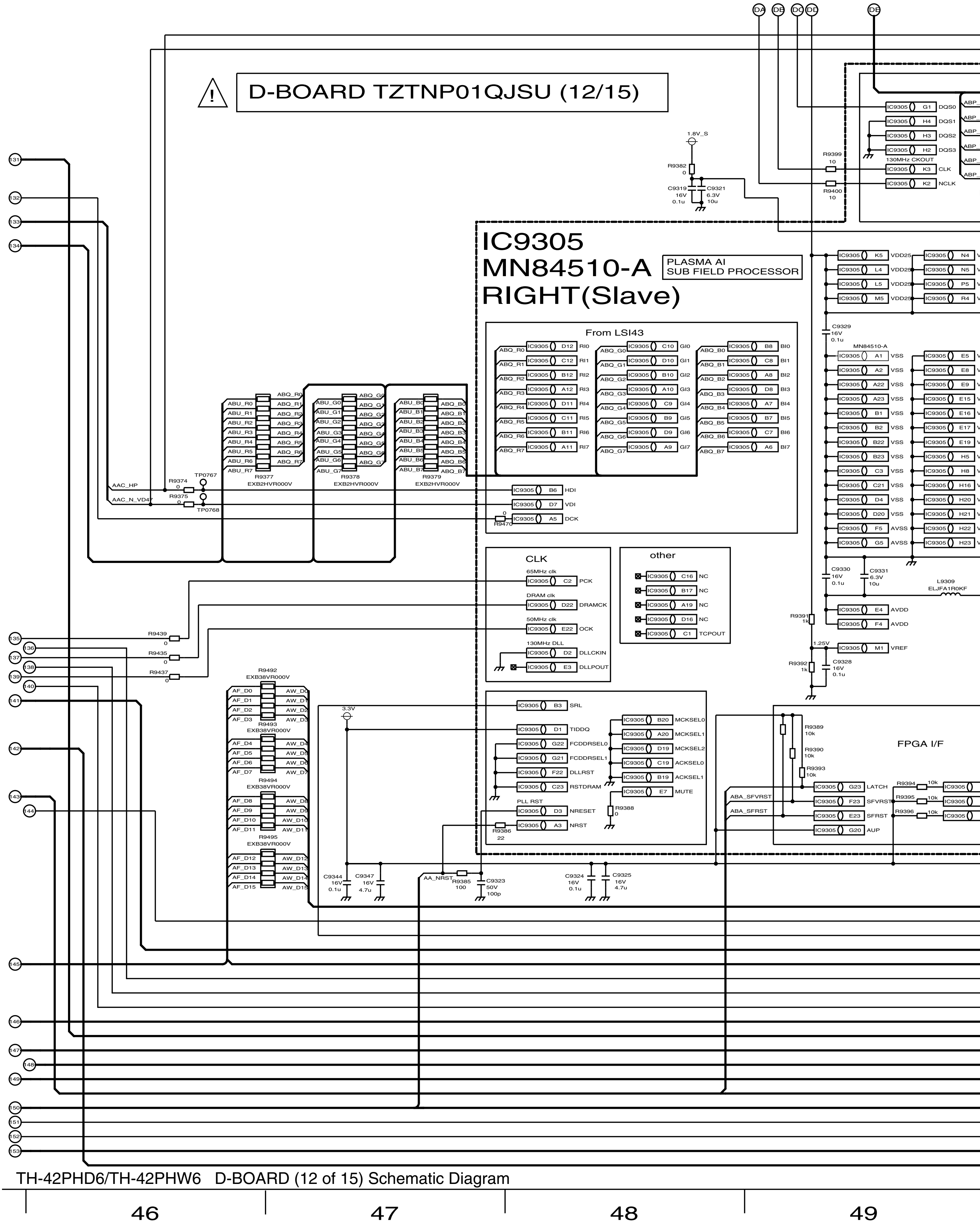
14.34. D-Board (11 of 15) Schematic Diagram


111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
TO
C1-BOARD
(C11)
D31
TERM
SIDE
AA_SOS2
R9317
0
R9314
0
5V
C9317
16V
0.1u
C9318
16V
4.7u
P5V
R9304
0
3.3V
R9338
47
R9342
47
R9346
0
R9350
0
R9354
47
AP_CEL
AB_PCU
AQ_NCLKR
AQ_CLKR
AP_HZ
AP_BLKL
R9596
10k
R9597
100
R9425
4.7k
R9595
100k
C9599
50V
0.01u
Q9598
2SD0601A0L
Q9599
2SD0601A0L
AA_DRVRST_5V
R9319
EXB38V470JV
R9321
EXB38V470JV
R9324
EXB38V680JV
R9332
EXB38V680JV
R9351
EXB38V680JV
R9359
EXB38V680JV
R9363
EXB38V680JV
R9369
EXB38V680JV
R9318
EXB38V470JV
R9320
EXB38V470JV
R9323
EXB38V680JV
R9327
EXB38V680JV
R9349
EXB38V680JV
R9357
EXB38V680JV
R9365
EXB38V680JV
R9368
EXB38V680JV
ABB_CER
AP_HZ
ABC_CKD2
ABC_CKD1
AC_BLKD
AB_PCD
R9309
0
R9328
47
R9331
47
R9335
0
R9337
0
R9341
47
D34
SIDE
TO
C4-BOARD
(C41)
R9312
0
R9431
4.7k
C9315
16V
4.7u
C9316
16V
0.1u
R9586
100k
C9596
50V
0.01u
R9513
10k
R9514
100
Q9592
2SD0601A0L
Q9593
AA_DRVRST_5V
38
39
40
41
42

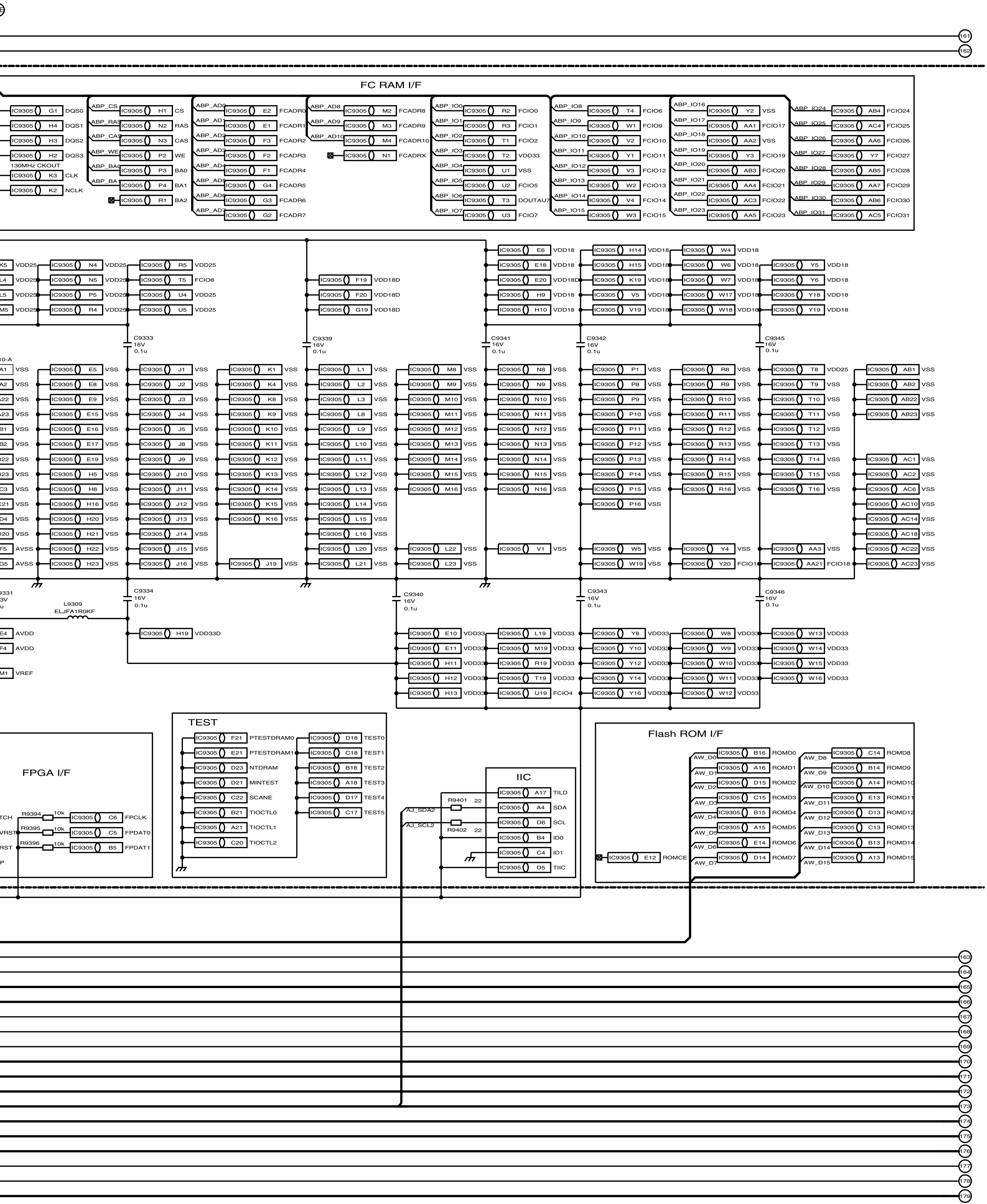
TH-42PHD6/TH-42PHW6 D-BOARD (11 of 15) Schematic Diagram


131
132
133
134
R9352
10
R9355
10
3.3V
AVR 3.3V
P5V
R9302
0
IC9302
C0CBCBD00008
C9303
16V
47u
C9302
16V
0.1u
5V
Vcont
Vin
GND
Np
Vout
5
4
1
2
3
C9305
6.3V
10u
C9307
16V
0.1u
C9308
16V
0.1u
C9309
6.3V
10u
C9311
16V
0.1u
R9362
10k
IC9303
C1ZBZ0002357
1 CLKC
2 VDD
3 AGND
4 XTALIN
5 XTALOUT
6 XBUF
7 CLKD
8 CLKE
16 SHUTDOWN/OE
15 S2/SUSPEND
14 AVDD
13 S1
12 S0
11 GND
10 CLKA
9 CLKB
C9314
16V
4.7u
R9373
0
R9371
0
R9367
0
X9302
H0J200500016
R9336
10
PLL SYNTHESIZER
IC9301
C1ZBZ0002358
1 XIN
2 VDD
3 PD#
4 VSS
8 XOUT
7 SSON
6 CLK2
5 CLK1
C9310
50V
33p
R9339
10k
R9322
10k
C9304
16V
4.7u
R9330
10
PLL SYNTHESIZER
3.3V
R9122
0
R9315
10k
R9548
0
AA_DRVRST
R9310
22k
R9311
10k
C9301
50V
0.01u
Q9301
2SD0601A0L
P5V
5V
C9317
16V
0.1u
C9318
16V
4.7u
AA_DRVRST_5V
9597
100
Q9599
2SD0601A0L
98
1A0L
R9348
10
R9460
10
R9347
10
R9461
10
R9329
10
R9462
10
10
135
136
137
138
139
140
141
142
143
144
D-BOARD TZTNP01QJSU (11/15)
145
146
147
148
149
150
151
152
153
P5V
C9316
16V
0.1u
3.3V
R9513
10k
R9514
100
AA_DRVRST_5V
Q9593
2SD0601A0L
Q9592
2SD0601A0L

14.35. D-Board (12 of 15) Schematic Diagram

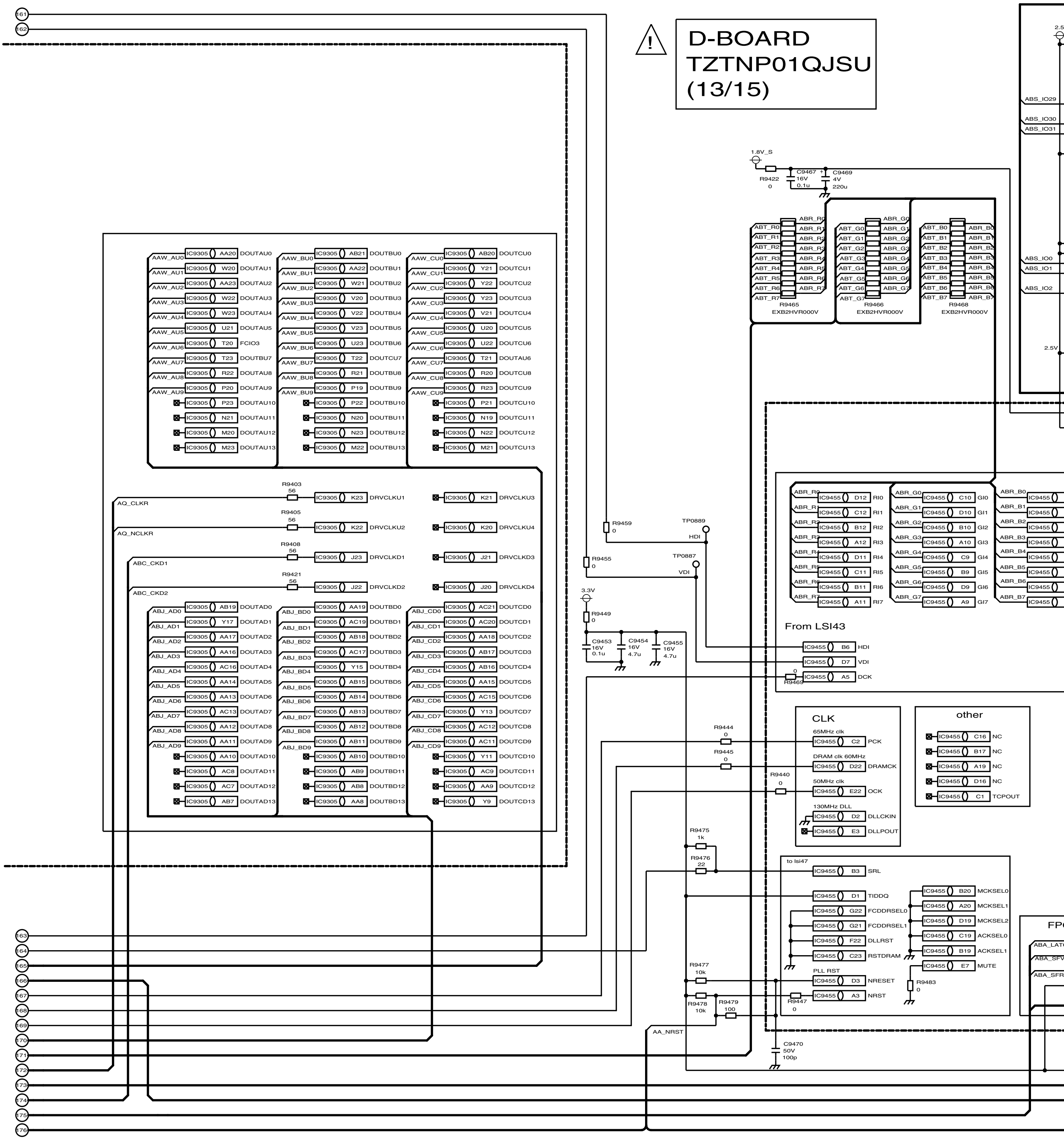

D-BOARD TZTNP01QJSU (12/15)
IC9305
MN84510-A
RIGHT(Slave)
PLASMA AI
SUB FIELD PROCESSOR
From LSI43
CLK
other
FPGA I/F
65MHz clk
DRAM clk
50MHz clk
130MHz DLL
130MHz CKOUT
PLL RST
1.8V_S
3.3V
1.25V
DA
DB
DC
DD
DE
AAC_HP
AAC_N_VD47
TP0767
TP0768
R9374
R9375
R9377
R9378
R9379
EXB2HVR000V
R9492
R9493
R9494
R9495
EXB38VR000V
R9382
R9399
R9400
R9470
R9439
R9435
R9437
R9385
R9386
R9388
R9389
R9390
R9393
R9391
R9392
R9394
R9395
R9396
C9319
C9321
C9323
C9324
C9325
C9328
C9329
C9330
C9331
C9344
C9347
L9309
ELJFA1R0KF
ABA_SFVRST
ABA_SFRST
AA_NRST
HDI
VDI
DCK
PCK
DRAMCK
OCK
DLLCKIN
DLLPOUT
NC
TCPOUT
SRL
TIDDQ
FCDDRSEL0
FCDDRSEL1
DLLRST
RSTDRAM
NRESET
NRST
MCKSEL0
MCKSEL1
MCKSEL2
ACKSEL0
ACKSEL1
MUTE
LATCH
SFVRST
SFRST
AUP
DQS0
DQS1
DQS2
DQS3
CLK
NCLK
VDD25
VSS
AVSS
AVDD
VREF
46
47
48
49

TH-42PHD6/TH-42PHW6 D-BOARD (12 of 15) Schematic Diagram


FC RAM I/F
TEST
FPGA I/F
IIC
Flash ROM I/F
130MHz CKOUT
C9333 16V 0.1u
C9339 16V 0.1u
C9341 16V 0.1u
C9342 16V 0.1u
C9345 16V 0.1u
C9334 16V 0.1u
C9340 16V 0.1u
C9343 16V 0.1u
C9346 16V 0.1u
L9309 ELJFA1R0KF
R9394 10k
R9395 10k
R9396 10k
R9401 22
R9402 22
AJ_SDA2
AJ_SCL2
IC9305
TILD
SDA
SCL
ID0
ID1
TIIC
PTESTDRAM0
PTESTDRAM1
NTDRAM
MINTEST
SCANE
TIOCTL0
TIOCTL1
TIOCTL2
TEST0
TEST1
TEST2
TEST3
TEST4
TEST5
FPCLK
FPDAT0
FPDAT1
ROMCE
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180

TH-42PHD6/TH-42PHW6 D-BOARD (12 of 15) Schematic Diagram

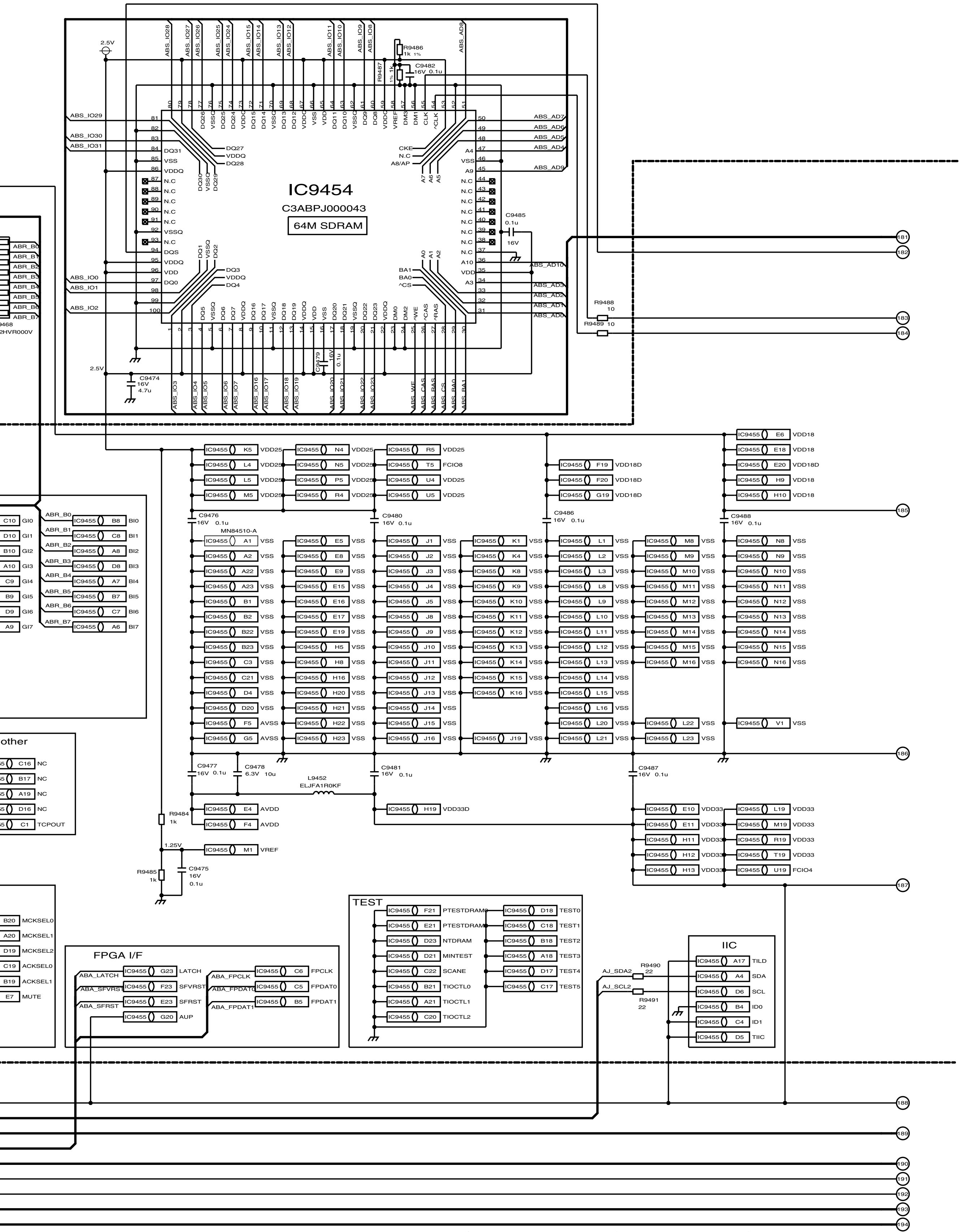
14.36. D-Board (13 of 15) Schematic Diagram



D-BOARD
TZTNP01QJSU
(13/15)
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
AAW_AU0
AAW_AU1
AAW_AU2
AAW_AU3
AAW_AU4
AAW_AU5
AAW_AU6
AAW_AU7
AAW_AU8
AAW_AU9
IC9305
DOUTAU0
DOUTAU1
DOUTAU2
DOUTAU3
DOUTAU4
DOUTAU5
FCIO3
DOUTBU7
DOUTAU8
DOUTAU9
DOUTAU10
DOUTAU11
DOUTAU12
DOUTAU13
AAW_BU0
AAW_BU1
AAW_BU2
AAW_BU3
AAW_BU4
AAW_BU5
AAW_BU6
AAW_BU7
AAW_BU8
AAW_BU9
DOUTBU0
DOUTBU1
DOUTBU2
DOUTBU3
DOUTBU4
DOUTBU5
DOUTBU6
DOUTCU7
DOUTBU8
DOUTBU9
DOUTBU10
DOUTBU11
DOUTBU12
DOUTBU13
AAW_CU0
AAW_CU1
AAW_CU2
AAW_CU3
AAW_CU4
AAW_CU5
AAW_CU6
AAW_CU7
AAW_CU8
AAW_CU9
DOUTCU0
DOUTCU1
DOUTCU2
DOUTCU3
DOUTCU4
DOUTCU5
DOUTCU6
DOUTAU6
DOUTCU8
DOUTCU9
DOUTCU10
DOUTCU11
DOUTCU12
DOUTCU13
AQ_CLKR
AQ_NCLKR
ABC_CKD1
ABC_CKD2
R9403
R9405
R9408
R9421
56
DRVCLKU1
DRVCLKU2
DRVCLKD1
DRVCLKD2
DRVCLKU3
DRVCLKU4
DRVCLKD3
DRVCLKD4
ABJ_AD0
ABJ_AD1
ABJ_AD2
ABJ_AD3
ABJ_AD4
ABJ_AD5
ABJ_AD6
ABJ_AD7
ABJ_AD8
ABJ_AD9
DOUTAD0
DOUTAD1
DOUTAD2
DOUTAD3
DOUTAD4
DOUTAD5
DOUTAD6
DOUTAD7
DOUTAD8
DOUTAD9
DOUTAD10
DOUTAD11
DOUTAD12
DOUTAD13
ABJ_BD0
ABJ_BD1
ABJ_BD2
ABJ_BD3
ABJ_BD4
ABJ_BD5
ABJ_BD6
ABJ_BD7
ABJ_BD8
ABJ_BD9
DOUTBD0
DOUTBD1
DOUTBD2
DOUTBD3
DOUTBD4
DOUTBD5
DOUTBD6
DOUTBD7
DOUTBD8
DOUTBD9
DOUTBD10
DOUTBD11
DOUTBD12
DOUTBD13
ABJ_CD0
ABJ_CD1
ABJ_CD2
ABJ_CD3
ABJ_CD4
ABJ_CD5
ABJ_CD6
ABJ_CD7
ABJ_CD8
ABJ_CD9
DOUTCD0
DOUTCD1
DOUTCD2
DOUTCD3
DOUTCD4
DOUTCD5
DOUTCD6
DOUTCD7
DOUTCD8
DOUTCD9
DOUTCD10
DOUTCD11
DOUTCD12
DOUTCD13
R9459
R9455
TP0889
HDI
TP0887
VDI
3.3V
R9449
C9453 16V 0.1u
C9454 16V 4.7u
C9455 16V 4.7u
1.8V_S
R9422 0
C9467 16V 0.1u
C9469 4V 220u
R9465 EXB2HVR000V
R9466 EXB2HVR000V
R9468 EXB2HVR000V
IC9455
From LSI43
RI0
RI1
RI2
RI3
RI4
RI5
RI6
RI7
GI0
GI1
GI2
GI3
GI4
GI5
GI6
GI7
HDI
VDI
DCK
R9469
CLK
65MHz clk
PCK
DRAM clk 60MHz
DRAMCK
50MHz clk
OCK
130MHz DLL
DLLCKIN
DLLPOUT
R9444 0
R9445 0
R9440 0
other
NC
TCPOUT
R9475 1k
R9476 22
to lsi47
SRL
TIDDQ
FCDDRSEL0
FCDDRSEL1
DLLRST
RSTDRAM
PLL RST
NRESET
NRST
MCKSEL0
MCKSEL1
MCKSEL2
ACKSEL0
ACKSEL1
MUTE
R9483 0
R9477 10k
R9478 10k
R9479 100
R9447 0
AA_NRST
C9470 50V 100p
ABS_IO29
ABS_IO30
ABS_IO31
ABS_IO0
ABS_IO1
ABS_IO2
2.5V

TH-42PHD6/TH-42PHW6   D-BOARD (13 of 15) Schematic Diagram

53 54 55 56 57

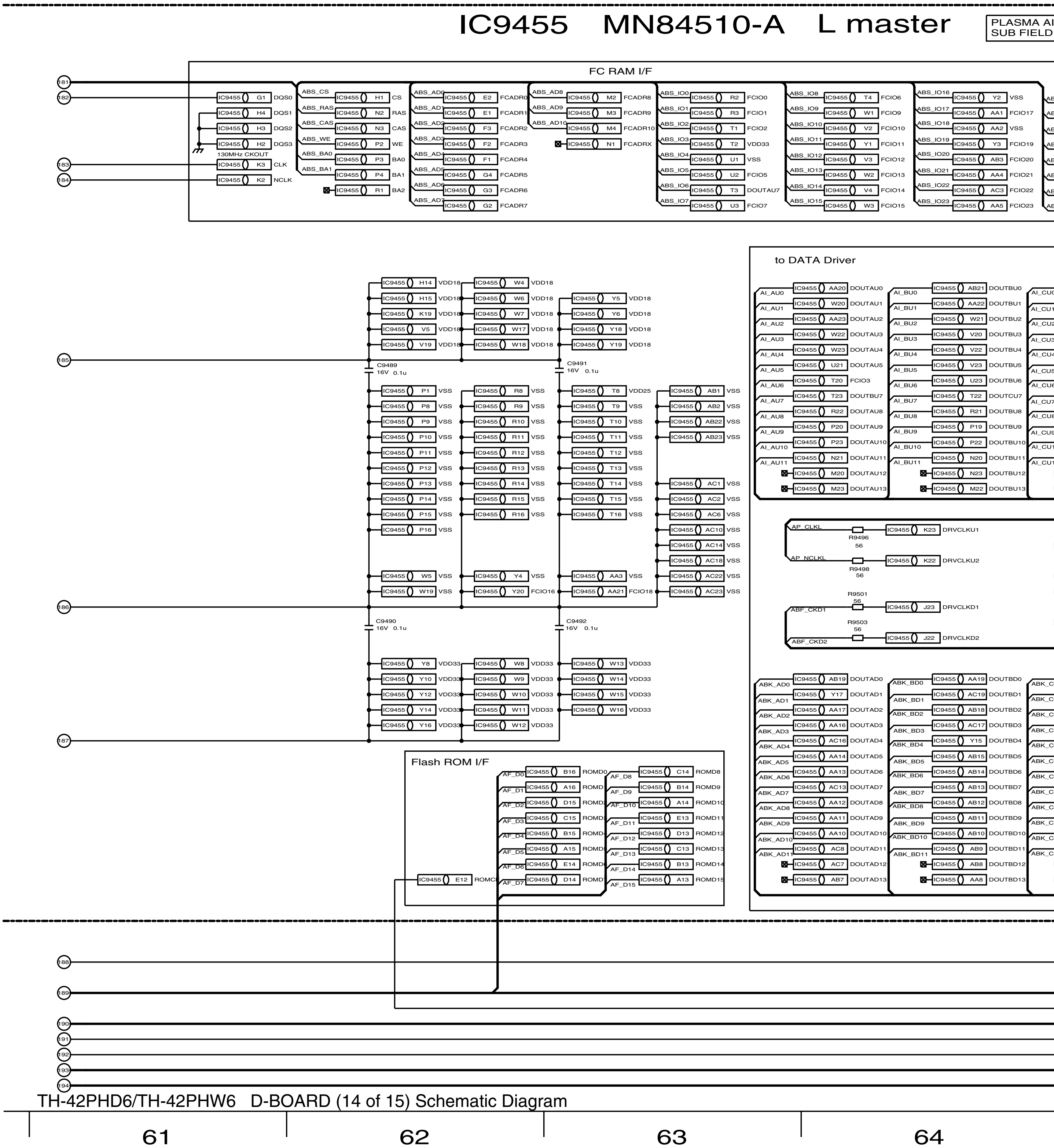

IC9454
C3ABPJ000043
64M SDRAM
MN84510-A
other
FPGA I/F
TEST
IIC
L9452
ELJFA1R0KF
R9486
R9487
R9488
R9489
R9484
R9485
R9490
R9491
C9474
C9475
C9476
C9477
C9478
C9479
C9480
C9481
C9482
C9485
C9486
C9487
C9488
2.5V
1.25V
AJ_SDA2
AJ_SCL2
181
182
183
184
185
186
187
188
189
190
191
192
193
194

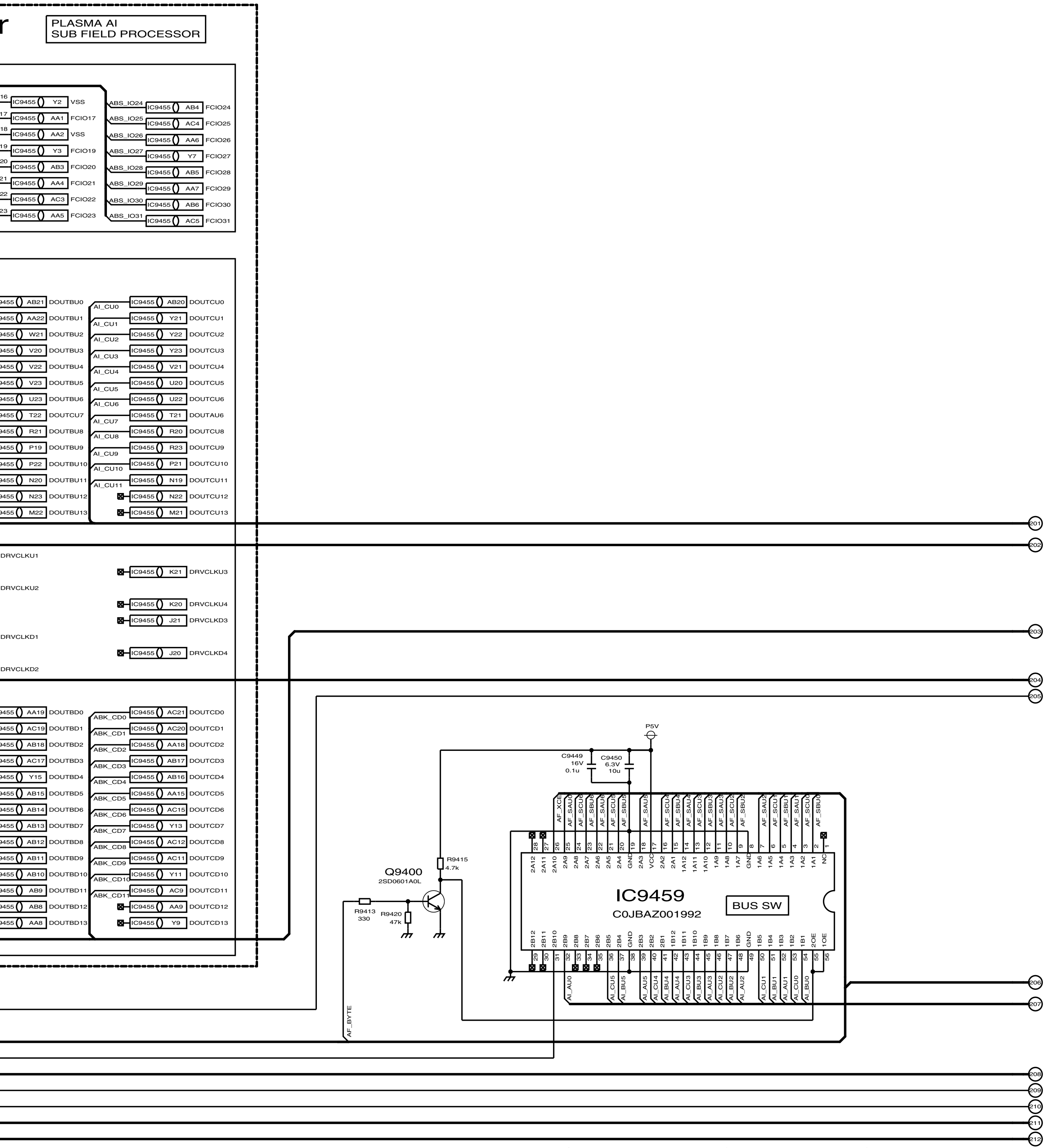
TH-42PHD6/TH-42PHW6 D-BOARD (13 of 15) Schematic Diagram

57 58 59 60

14.37. D-Board (14 of 15) Schematic Diagram

⚠ D-BOARD TZTNP01QJSU (14/15)


IC9455 MN84510-A L master
PLASMA AI
SUB FIELD
FC RAM I/F
130MHz CKOUT
to DATA Driver
Flash ROM I/F
C9489
16V 0.1u
C9491
16V 0.1u
C9490
16V 0.1u
C9492
16V 0.1u
R9496
56
R9498
56
R9501
56
R9503
56
DQS0
DQS1
DQS2
DQS3
CLK
NCLK
CS
RAS
CAS
WE
BA0
BA1
BA2
ABS_CS
ABS_RAS
ABS_CAS
ABS_WE
ABS_BA0
ABS_BA1
DRVCLKU1
DRVCLKU2
DRVCLKD1
DRVCLKD2
AP_CLKL
AP_NCLKL
ABF_CKD1
ABF_CKD2
ROMCE
VDD18
VDD25
VDD33
VSS
181
182
183
184
185
186
187
188
189
190
191
192
193
194
61
62
63
64

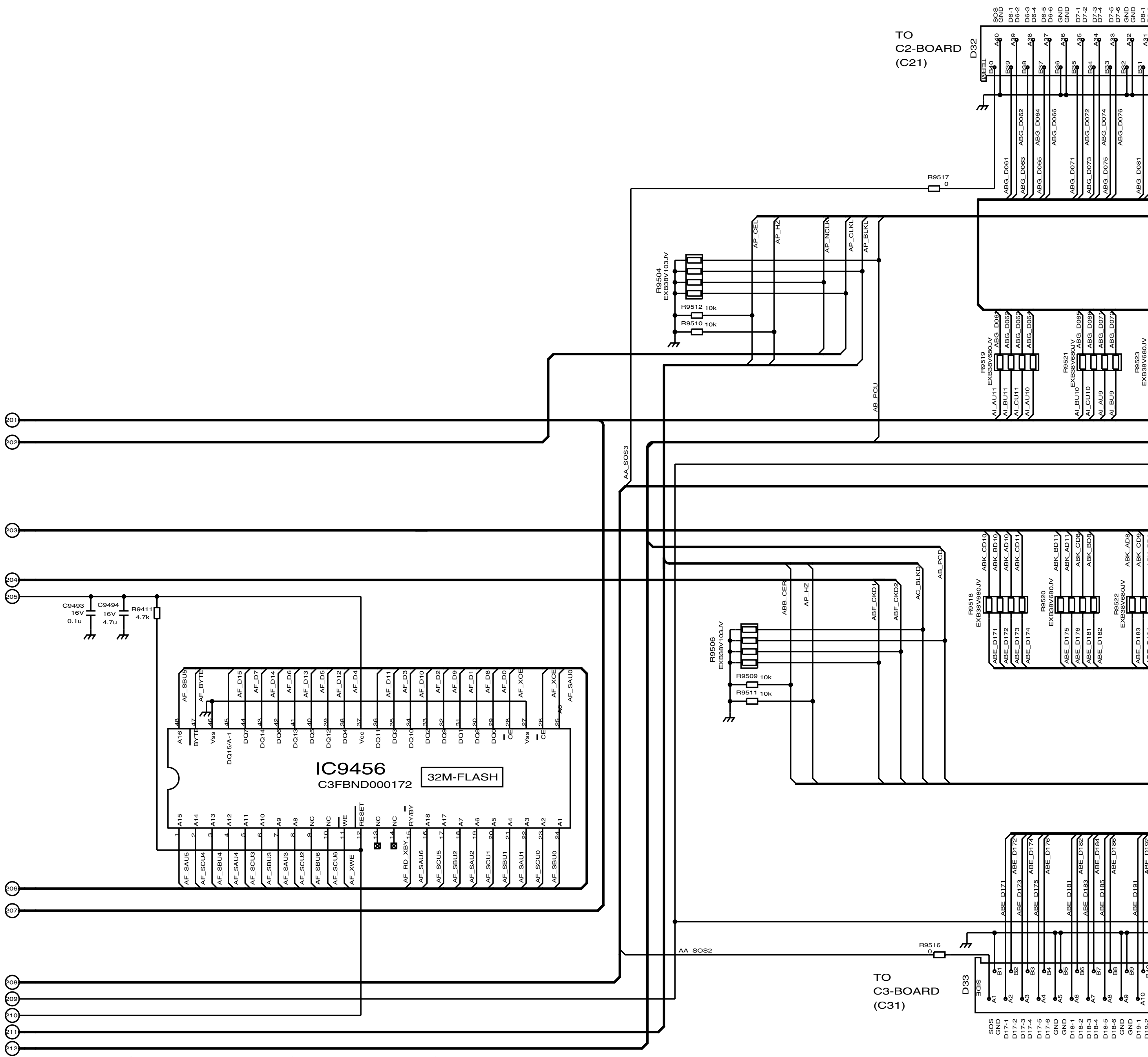

PLASMA AI
SUB FIELD PROCESSOR
IC9459
C0JBAZ001992
BUS SW
Q9400
2SD0601A0L
R9415
4.7k
R9413
330
R9420
47k
C9449
16V
0.1u
C9450
6.3V
10u
P5V
AF_BYTE
DRVCLKU1
DRVCLKU2
DRVCLKD1
DRVCLKD2
201
202
203
204
205
206
207
208
209
210
211
212

TH-42PHD6/TH-42PHW6 D-BOARD (14 of 15) Schematic Diagram

65 66 67 68

14.38. D-Board (15 of 15) Schematic Diagram

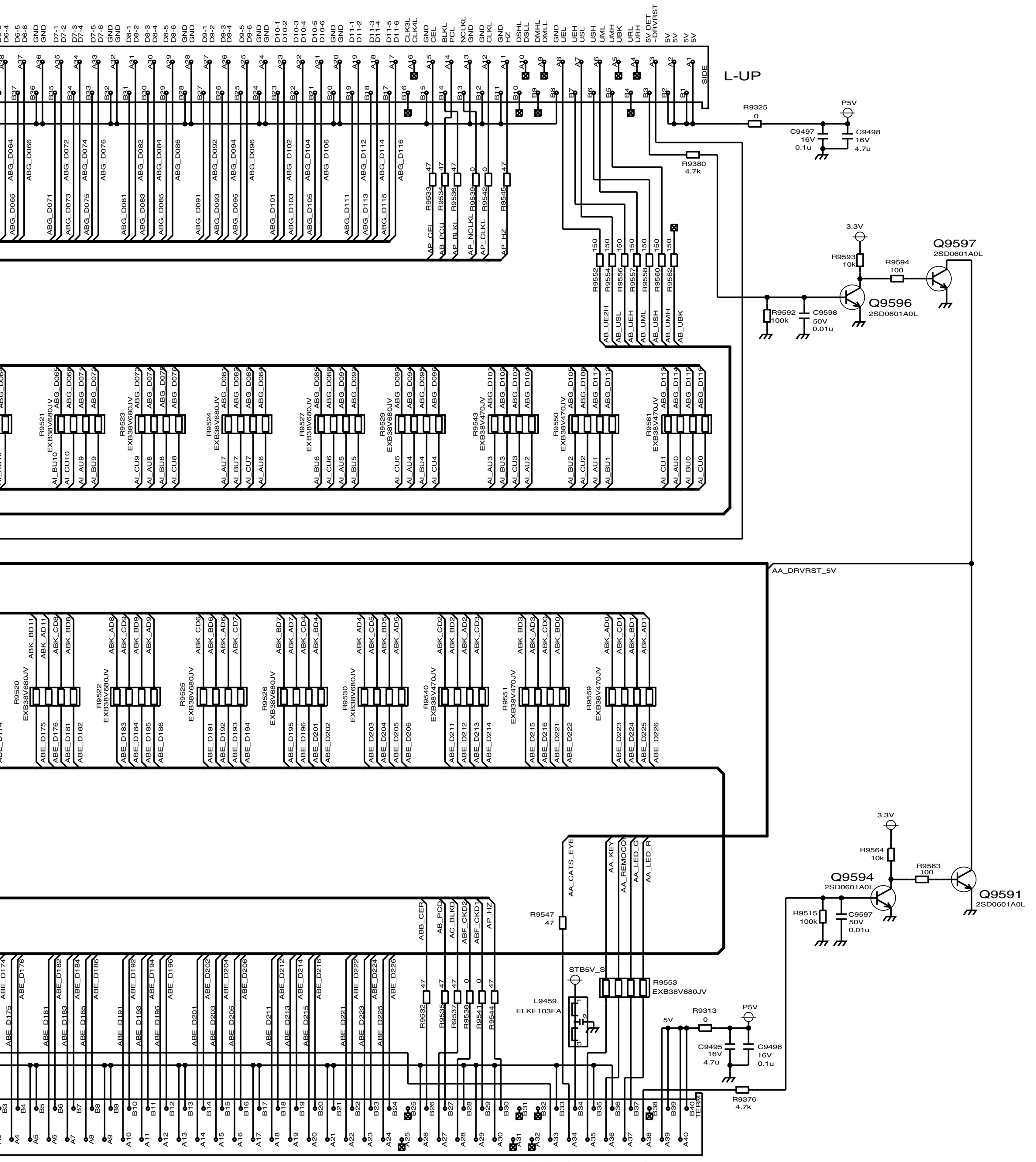
⚠ D-BOARD TZTNP01QJSU (15/15)



TO
C2-BOARD
(C21)
D32
TO
C3-BOARD
(C31)
D33
IC9456
C3FBND000172
32M-FLASH
R9504
EXB38V103JV
R9506
EXB38V103JV
R9512 10k
R9510 10k
R9509 10k
R9511 10k
R9517
0
R9516
0
R9518
EXB38V680JV
R9519
EXB38V680JV
R9520
EXB38V680JV
R9521
EXB38V680JV
R9522
EXB38V680JV
R9523
EXB38V680JV
C9493
16V
0.1u
C9494
16V
4.7u
R9411
4.7k
AP_CEL
AP_HZ
AP_NCLK
AP_CLKL
AP_BLKL
AB_PCU
AA_SOS3
AA_SOS2
ABB_CER
AP_HZ
ABF_CKD1
ABF_CKD2
AC_BLKD
AB_PCD
201
202
203
204
205
206
207
208
209
210
211
212

TH-42PHD6/TH-42PHW6 D-BOARD (15 of 15) Schematic Diagram

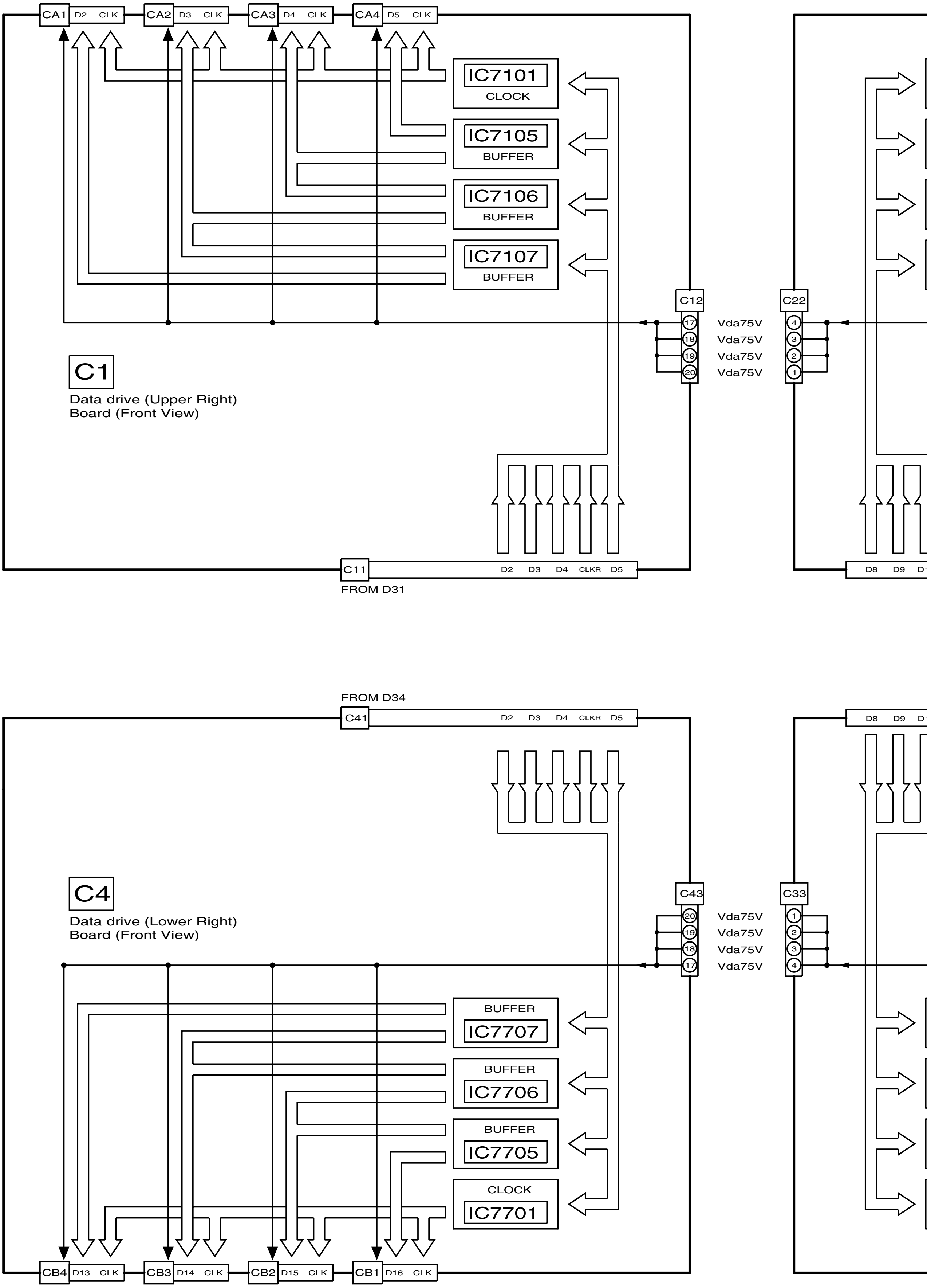
68 69 70 71 72


L-UP
SIDE
R9325 0
P5V
C9497 16V 0.1u
C9498 16V 4.7u
R9380 4.7k
3.3V
R9593 10k
R9594 100
Q9597 2SD0601A0L
Q9596 2SD0601A0L
R9592 100k
C9598 50V 0.01u
AA_DRVRST_5V
R9521 EXB38V680JV
R9523 EXB38V680JV
R9524 EXB38V680JV
R9527 EXB38V680JV
R9529 EXB38V680JV
R9543 EXB38V470JV
R9550 EXB38V470JV
R9561 EXB38V470JV
R9520 EXB38V680JV
R9522 EXB38V680JV
R9525 EXB38V680JV
R9526 EXB38V680JV
R9530 EXB38V680JV
R9540 EXB38V470JV
R9551 EXB38V470JV
R9559 EXB38V470JV
R9564 10k
R9563 100
Q9594 2SD0601A0L
Q9591 2SD0601A0L
R9515 100k
C9597 50V 0.01u
R9547 47
AA_CATS_EYE
AA_KEY
AA_REMOCON
AA_LED_G
AA_LED_R
STB5V_S
L9459 ELKE103FA
R9553 EXB38V680JV
R9313 0
5V
P5V
C9495 16V 4.7u
C9496 16V 0.1u
R9376 4.7k
TERM

TH-42PHD6/TH-42PHW6
D-BOARD (15 of 15) Schematic Diagram

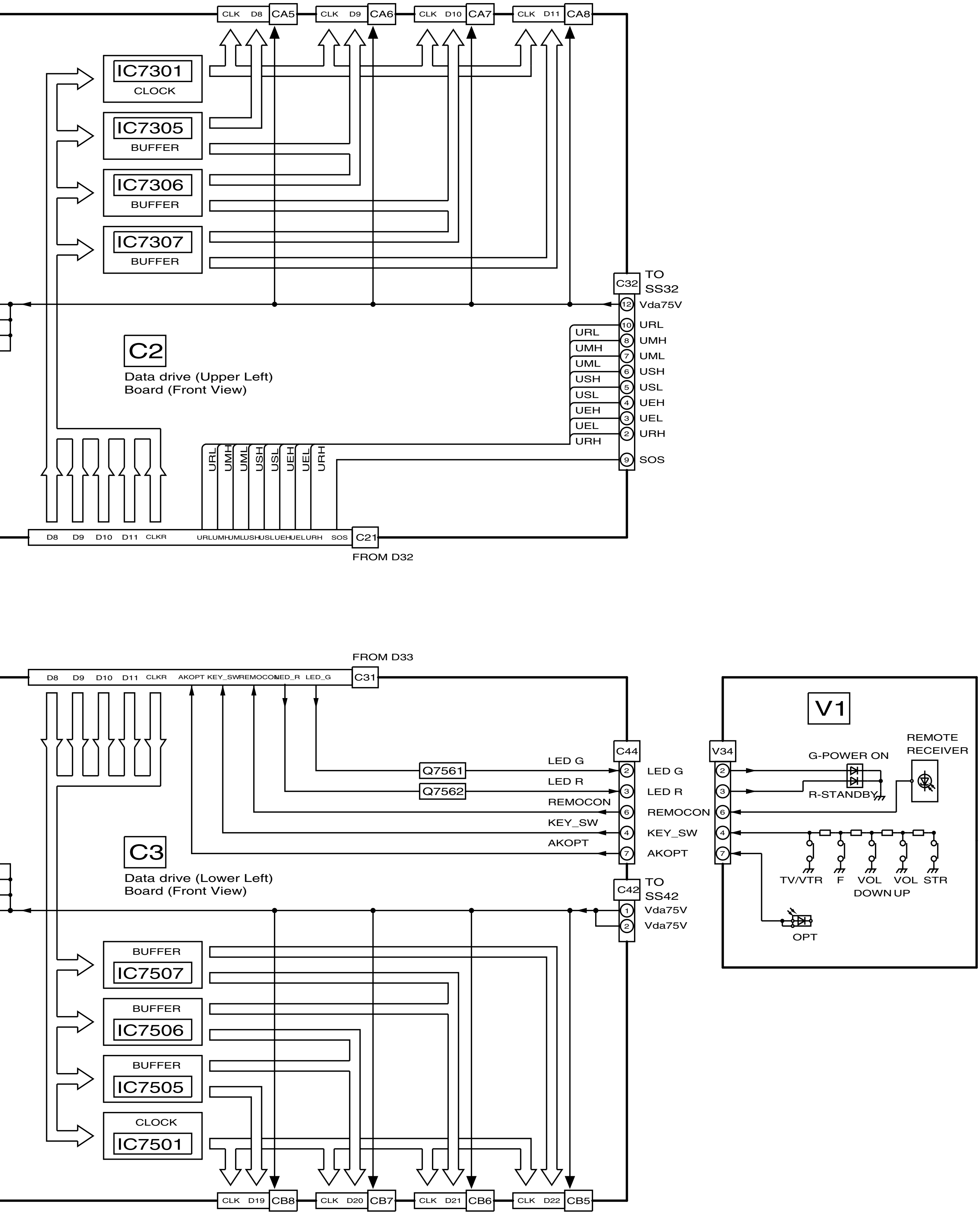
72 73 74 75

14.39. C1-Board, C2-Board, C3-Board, C4-Board and V1-Board Block Diagram


CA1
D2
CLK
CA2
D3
CLK
CA3
D4
CLK
CA4
D5
CLK
IC7101
CLOCK
IC7105
BUFFER
IC7106
BUFFER
IC7107
BUFFER
C12
17
18
19
20
Vda75V
Vda75V
Vda75V
Vda75V
C22
4
3
2
1
C1
Data drive (Upper Right)
Board (Front View)
C11
D2
D3
D4
CLKR
D5
FROM D31
D8
D9
FROM D34
C41
D2
D3
D4
CLKR
D5
D8
D9
C4
Data drive (Lower Right)
Board (Front View)
C43
20
19
18
17
Vda75V
Vda75V
Vda75V
Vda75V
C33
1
2
3
4
BUFFER
IC7707
BUFFER
IC7706
BUFFER
IC7705
CLOCK
IC7701
CB4
D13
CLK
CB3
D14
CLK
CB2
D15
CLK
CB1
D16
CLK

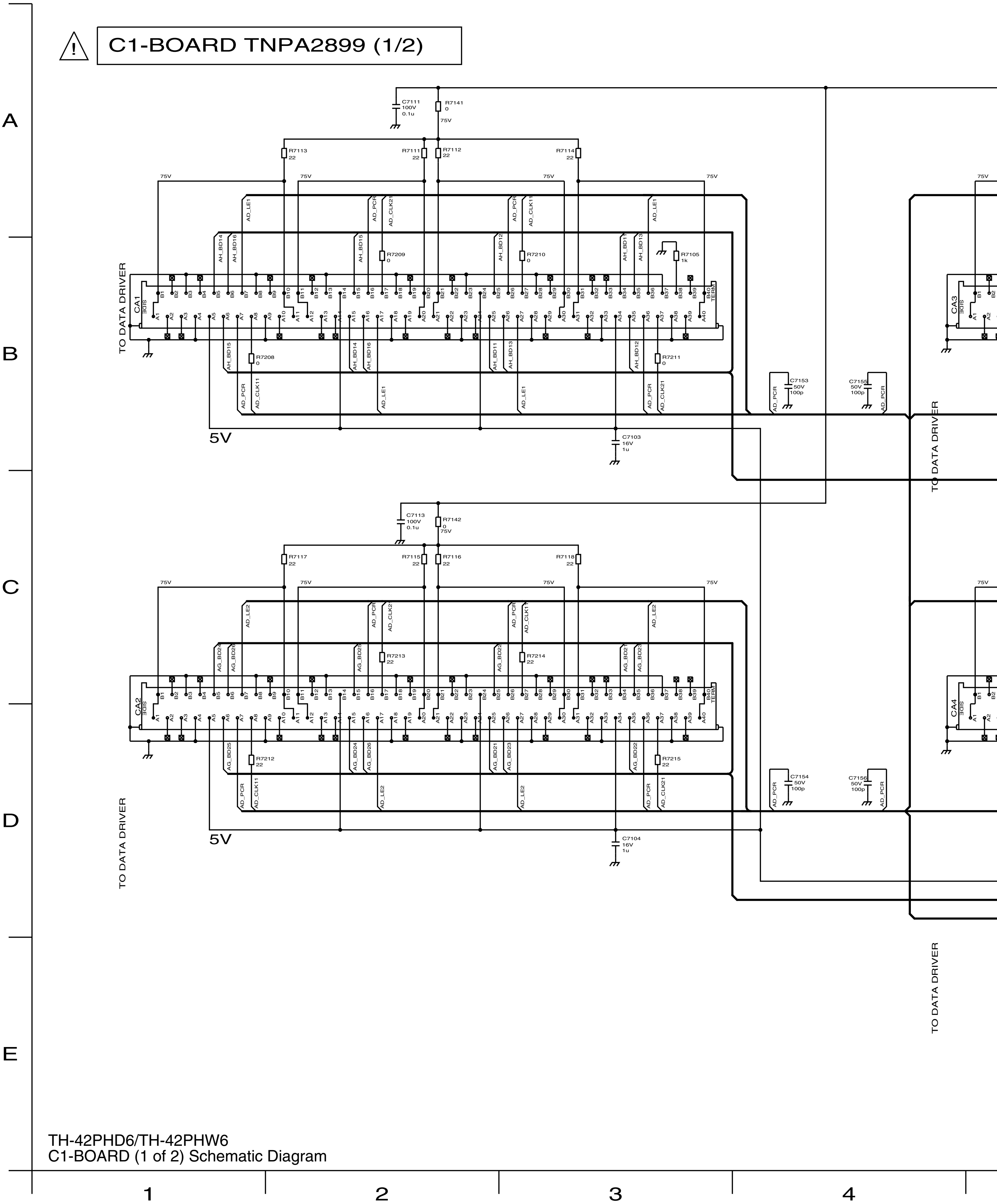
TH-42PHD6/TH-42PHW6
C1-BOARD, C2-BOARD, C3-BOARD, C4-BOARD and V1-BOARD Block Diagram

gram

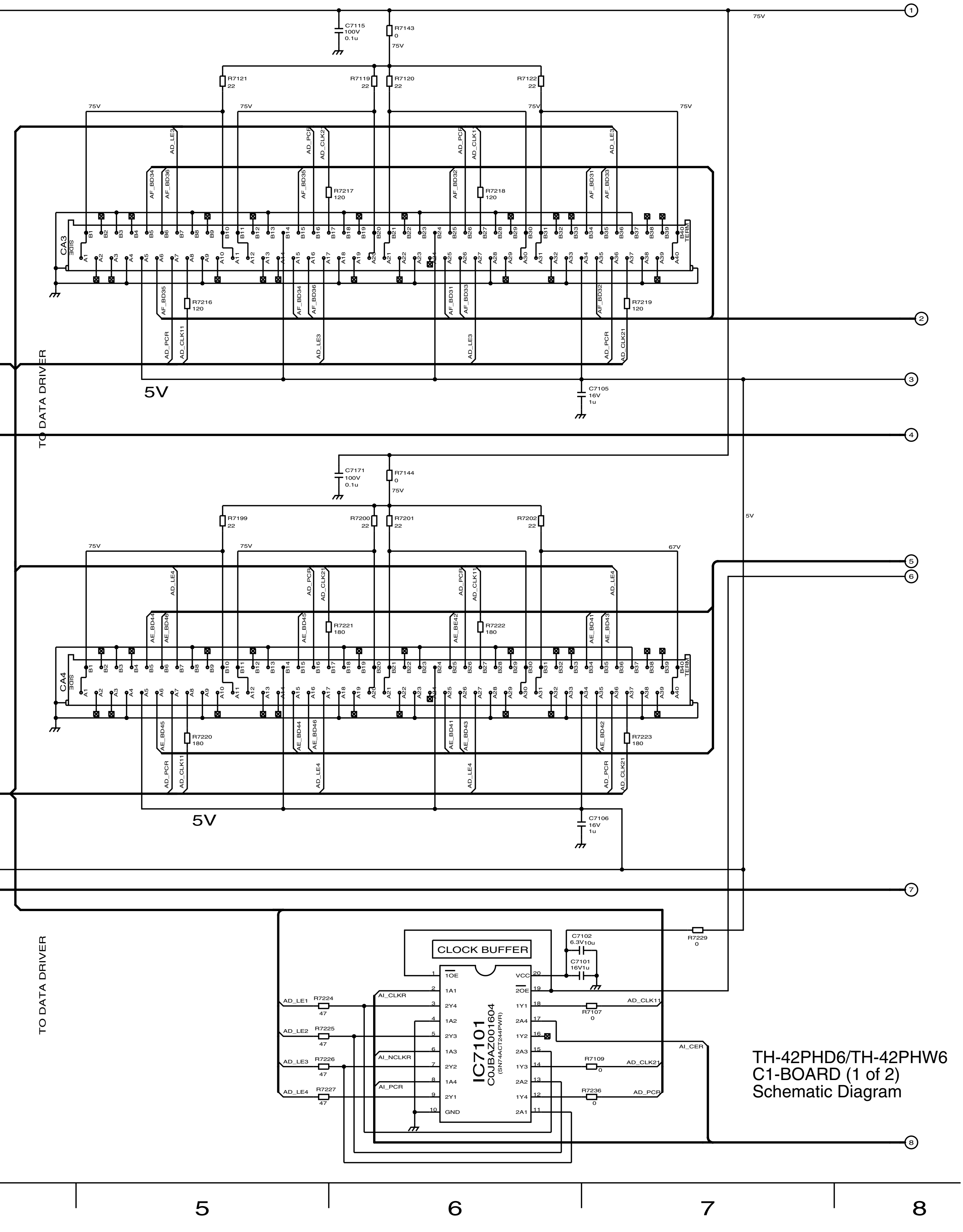

CLK D8 CA5
CLK D9 CA6
CLK D10 CA7
CLK D11 CA8
IC7301
CLOCK
IC7305
BUFFER
IC7306
BUFFER
IC7307
BUFFER
C32
TO
SS32
12 Vda75V
10 URL
8 UMH
7 UML
6 USH
5 USL
4 UEH
3 UEL
2 URH
9 SOS
URL
UMH
UML
USH
USL
UEH
UEL
URH
C2
Data drive (Upper Left)
Board (Front View)
D8 D9 D10 D11 CLKR URLUMHUMLUSHUSLUEHUELURH SOS C21
FROM D32
FROM D33
D8 D9 D10 D11 CLKR AKOPT KEY_SWREMOCONLED_R LED_G C31
C44
LED G
LED R
REMOCON
KEY_SW
AKOPT
Q7561
Q7562
2 LED G
3 LED R
6 REMOCON
4 KEY_SW
7 AKOPT
C3
Data drive (Lower Left)
Board (Front View)
C42
TO
SS42
1 Vda75V
2 Vda75V
BUFFER
IC7507
BUFFER
IC7506
BUFFER
IC7505
CLOCK
IC7501
CLK D19 CB8
CLK D20 CB7
CLK D21 CB6
CLK D22 CB5
V1
V34
G-POWER ON
R-STANDBY
REMOTE
RECEIVER
TV/VTR
F
VOL
DOWN
VOL
UP
STR
OPT

TH-42PHD6/TH-42PHW6
C1-BOARD, C2-BOARD, C3-BOARD, C4-BOARD and V1-BOARD Block Diagram

14.40. C1-Board (1 of 2) Schematic Diagram

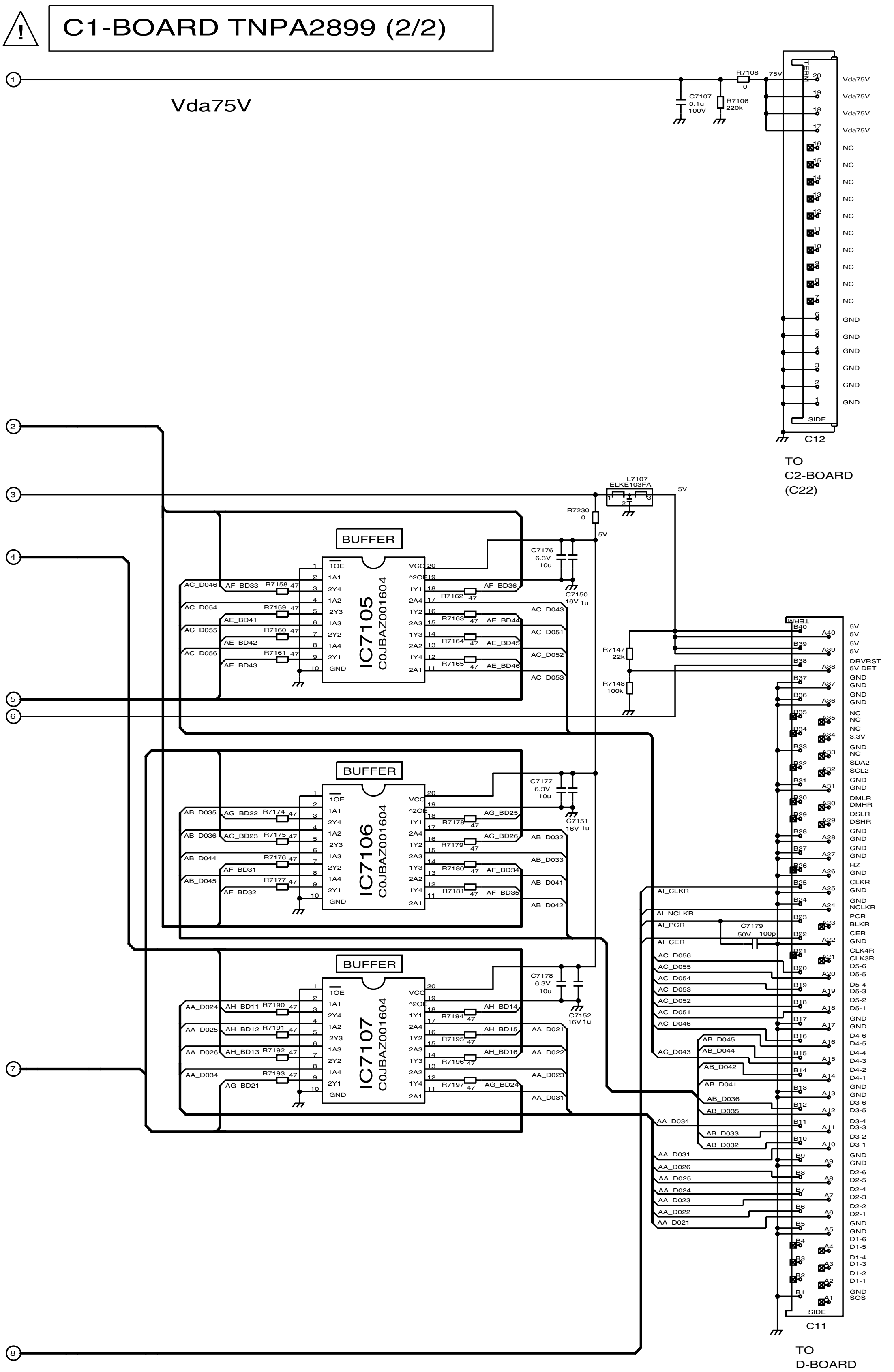

C1-BOARD TNPA2899 (1/2)
A
B
C
D
E
1
2
3
4
C7111 100V 0.1u
R7141 0
75V
R7113 22
R7111 22
R7112 22
R7114 22
AD_LE1
AD_PCR
AD_CLK21
AD_CLK11
AH_BD14
AH_BD16
AH_BD15
AH_BD12
AH_BD11
AH_BD13
R7209 0
R7210 0
R7105 1k
CA1
SIDE
TERM
TO DATA DRIVER
R7208 0
R7211 0
C7153 50V 100p
C7155 50V 100p
5V
C7103 16V 1u
CA3
C7113 100V 0.1u
R7142 0
R7117 22
R7115 22
R7116 22
R7118 22
AD_LE2
AG_BD24
AG_BD26
AG_BD25
AG_BD22
AG_BD21
AG_BD23
R7213 22
R7214 22
CA2
CA4
R7212 22
R7215 22
C7154 50V 100p
C7156 50V 100p
C7104 16V 1u

TH-42PHD6/TH-42PHW6
C1-BOARD (1 of 2) Schematic Diagram


C7115
100V
0.1u
R7143
0
75V
R7121
22
R7119
22
R7120
22
R7122
22
75V
CA3
SIDE
TERM
AD_LE3
AD_PCR
AD_CLK2
AD_CLK1
AF_BD34
AF_BD36
AF_BD35
AF_BD32
AF_BD31
AF_BD33
R7217
120
R7218
120
R7216
120
R7219
120
AD_CLK11
AD_CLK21
5V
C7105
16V
1u
TO DATA DRIVER
C7171
100V
0.1u
R7144
0
R7199
22
R7200
22
R7201
22
R7202
22
67V
5V
CA4
AD_LE4
AD_CLK21
AD_CLK11
AE_BD44
AE_BD46
AE_BD45
AE_BE42
AE_BD41
AE_BD43
AE_BD42
R7221
180
R7222
180
R7220
180
R7223
180
C7106
16V
1u
CLOCK BUFFER
IC7101
C0JBAZ001604
(SN74ACT244PWR)
1OE
1A1
2Y4
1A2
2Y3
1A3
2Y2
1A4
2Y1
GND
VCC
2OE
1Y1
2A4
1Y2
2A3
1Y3
2A2
1Y4
2A1
C7102
6.3V10u
C7101
16V1u
R7229
0
AD_LE1
AD_LE2
AD_LE3
AD_LE4
R7224
47
R7225
47
R7226
47
R7227
47
AI_CLKR
AI_NCLKR
AI_PCR
AI_CER
R7107
0
R7109
0
R7236
0
AD_CLK11
AD_CLK21
AD_PCR
1
2
3
4
5
6
7
8
5
6
7
8

TH-42PHD6/TH-42PHW6
C1-BOARD (1 of 2)
Schematic Diagram

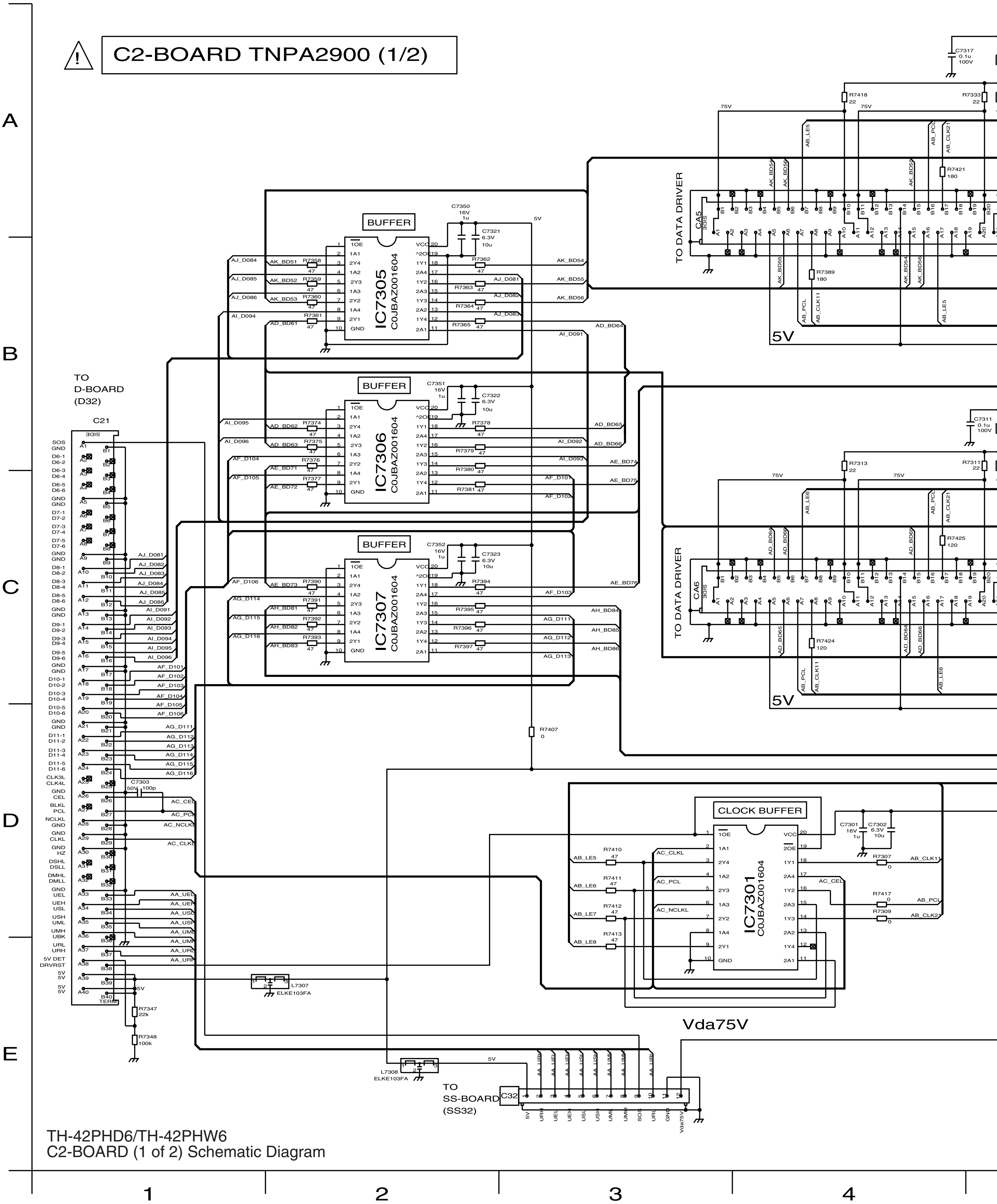
14.41. C1-Board (2 of 2) Schematic Diagram


C1-BOARD TNPA2899 (2/2)
Vda75V
R7108 0
75V
C7107 0.1u 100V
R7106 220k
TERM
Vda75V
NC
GND
SIDE
C12
TO C2-BOARD (C22)
L7107 ELKE103FA
5V
R7230 0
BUFFER
IC7105 C0JBAZ001604
IC7106 C0JBAZ001604
IC7107 C0JBAZ001604
1OE
1A1
2Y4
1A2
2Y3
1A3
2Y2
1A4
2Y1
GND
VCC
^2OE
1Y1
2A4
1Y2
2A3
1Y3
2A2
1Y4
2A1
C7176 6.3V 10u
C7150 16V 1u
C7177 6.3V 10u
C7151 16V 1u
C7178 6.3V 10u
C7152 16V 1u
R7147 22k
R7148 100k
C7179 50V 100p
AC_D046
AF_BD33
R7158 47
AC_D054
R7159 47
AC_D055
AE_BD41
R7160 47
AC_D056
AE_BD42
R7161 47
AE_BD43
AF_BD36
R7162 47
AC_D043
R7163 47
AE_BD44
AC_D051
R7164 47
AE_BD45
AC_D052
R7165 47
AE_BD46
AC_D053
AB_D035
AG_BD22
R7174 47
AB_D036
AG_BD23
R7175 47
AB_D044
R7176 47
AB_D045
AF_BD31
R7177 47
AF_BD32
AG_BD25
R7178 47
AB_D032
R7179 47
AG_BD26
AB_D033
R7180 47
AF_BD34
AB_D041
R7181 47
AF_BD35
AB_D042
AA_D024
AH_BD11
R7190 47
AA_D025
AH_BD12
R7191 47
AA_D026
AH_BD13
R7192 47
AA_D034
R7193 47
AG_BD21
AH_BD14
R7194 47
AA_D021
R7195 47
AH_BD15
AA_D022
R7196 47
AH_BD16
AA_D023
R7197 47
AG_BD24
AA_D031
AI_CLKR
AI_NCLKR
AI_PCR
AI_CER
AC_D056
AC_D055
AC_D054
AC_D053
AC_D052
AC_D051
AC_D046
AC_D043
AB_D045
AB_D044
AB_D042
AB_D041
AB_D036
AB_D035
AB_D033
AB_D032
AA_D034
AA_D031
AA_D026
AA_D025
AA_D024
AA_D023
AA_D022
AA_D021
5V
DRVRST
5V DET
GND
NC
3.3V
SDA2
SCL2
DMLR
DMHR
DSLR
DSHR
HZ
CLKR
NCLKR
PCR
BLKR
CER
CLK4R
CLK3R
D5-6
D5-5
D5-4
D5-3
D5-2
D5-1
D4-6
D4-5
D4-4
D4-3
D4-2
D4-1
D3-6
D3-5
D3-4
D3-3
D3-2
D3-1
D2-6
D2-5
D2-4
D2-3
D2-2
D2-1
D1-6
D1-5
D1-4
D1-3
D1-2
D1-1
SOS
SIDE
C11
TO D-BOARD (D31)
①
②
③
④
⑤
⑥
⑦
⑧

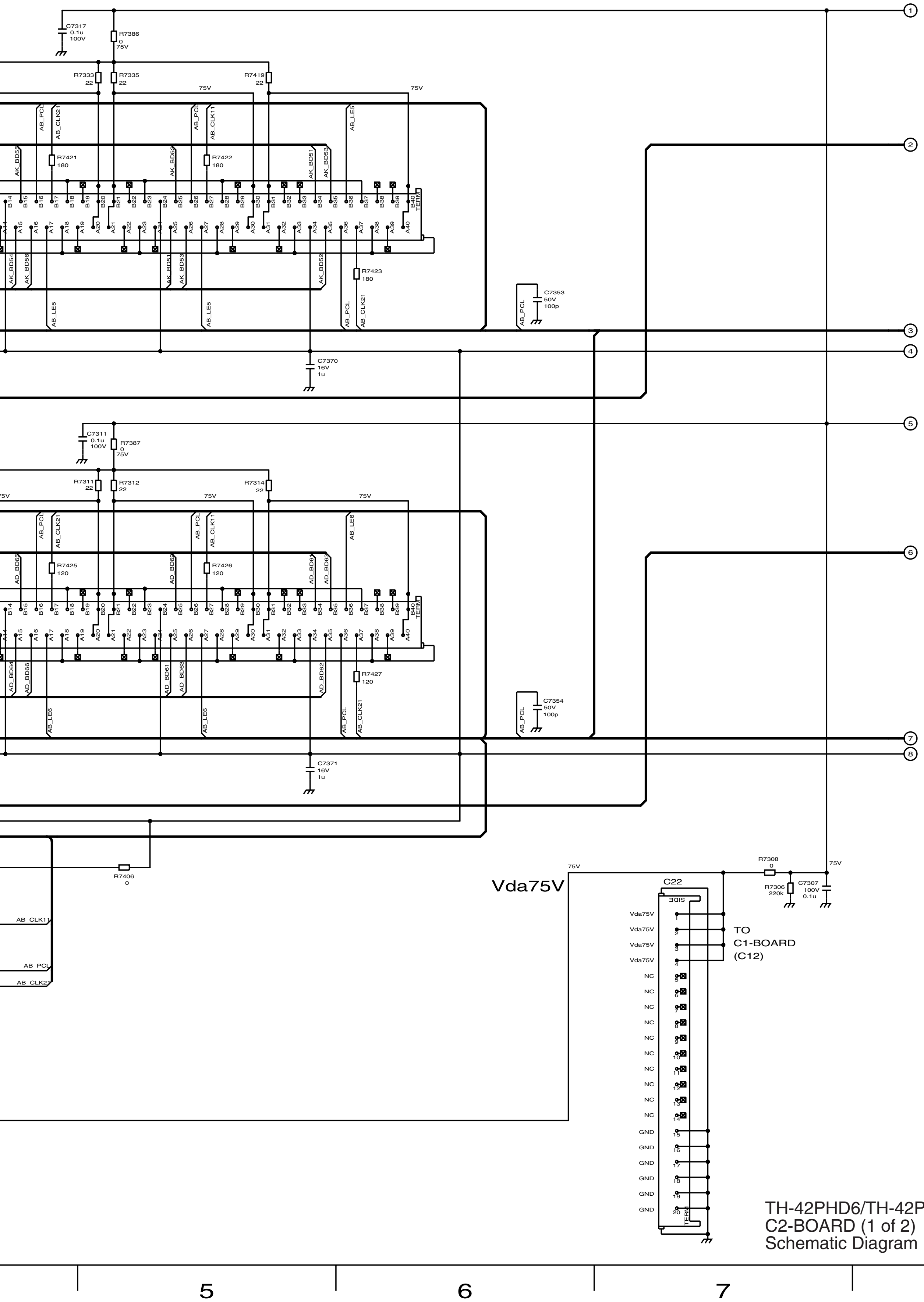
TH-42PHD6/TH-42PHW6
C1-BOARD (2 of 2) Schematic Diagram

12 13 14 15

14.42. C2-Board (1 of 2) Schematic Diagram

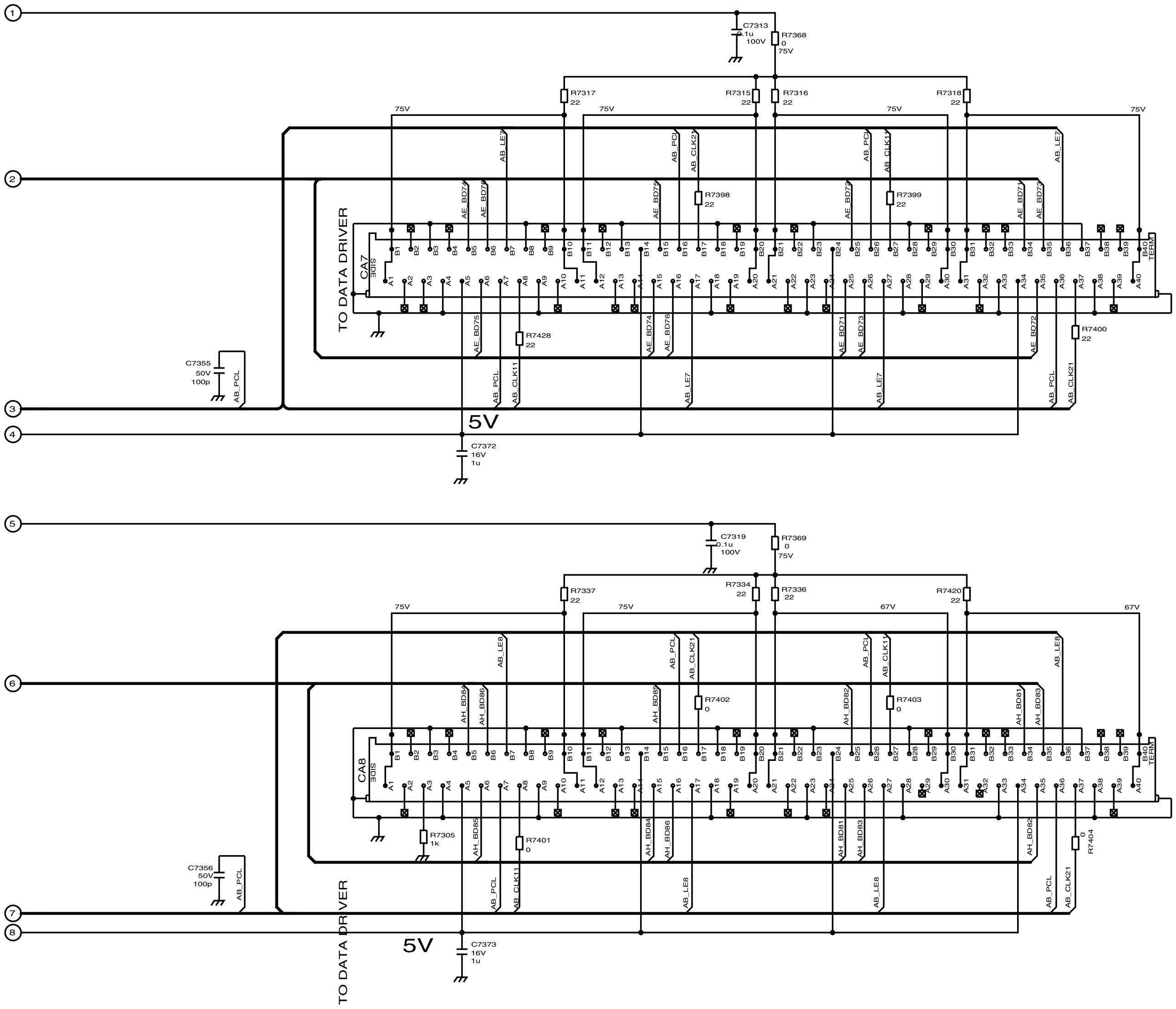

C2-BOARD TNPA2900 (1/2)
A
B
C
D
E
1
2
3
4
TO D-BOARD (D32)
C21
BUFFER
IC7305
C0JBAZ001604
BUFFER
IC7306
C0JBAZ001604
BUFFER
IC7307
C0JBAZ001604
CLOCK BUFFER
IC7301
C0JBAZ001604
TO DATA DRIVER
CA5
TO DATA DRIVER
CA6
5V
75V
Vda75V
L7307
ELKE103FA
L7308
ELKE103FA
R7347
22k
R7348
100k
R7407
0
TO SS-BOARD (SS32)
C32

TH-42PHD6/TH-42PHW6
C2-BOARD (1 of 2) Schematic Diagram


C7317
0.1u
100V
R7386
0
75V
R7333
22
R7335
22
R7419
22
75V
AB_PCL
AB_CLK21
AB_CLK11
AB_LE5
AK_BD55
AK_BD52
AK_BD51
AK_BD53
AK_BD54
AK_BD56
AK_BD61
AK_BD53
AK_BD62
R7421
180
R7422
180
R7423
180
TERM
C7353
50V
100p
C7370
16V
1u
C7311
0.1u
100V
R7387
0
75V
R7311
22
R7312
22
R7314
22
AB_LE6
AD_BD65
AD_BD62
AD_BD61
AD_BD63
AD_BD64
AD_BD66
R7425
120
R7426
120
R7427
120
C7354
50V
100p
C7371
16V
1u
R7406
0
AB_CLK11
AB_PCL
AB_CLK21
Vda75V
R7308
0
R7306
220k
C7307
100V
0.1u
C22
SIDE
Vda75V
NC
GND
TO
C1-BOARD
(C12)
1
2
3
4
5
6
7
8
5
6
7
8

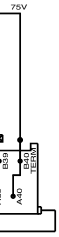
TH-42PHD6/TH-42PHW6
C2-BOARD (1 of 2)
Schematic Diagram

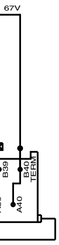
14.43. C2-Board (2 of 2) Schematic Diagram



C7313
0.1u
100V
R7368
0
75V
R7317
22
R7315
22
R7316
22
R7318
22
75V
AB_LE7
AB_PCL
AB_CLK21
AB_CLK11
AE_BD77
AE_BD78
AE_BD75
AE_BD74
AE_BD76
AE_BD71
AE_BD73
AE_BD72
R7398
22
R7399
22
R7428
22
R7400
22
TO DATA DRIVER
CA7
30IS
TERM
C7355
50V
100p
5V
C7372
16V
1u
C7319
0.1u
100V
R7369
0
75V
R7337
22
R7334
22
R7336
22
R7420
22
67V
AB_LE8
AH_BD84
AH_BD86
AH_BD85
AH_BD82
AH_BD81
AH_BD83
R7402
0
R7403
0
R7305
1k
R7401
0
R7404
0
CA8
C7356
50V
100p
C7373
16V
1u
1
2
3
4
5
6
7
8

C2-BOARD TNPA2900 (2/2)

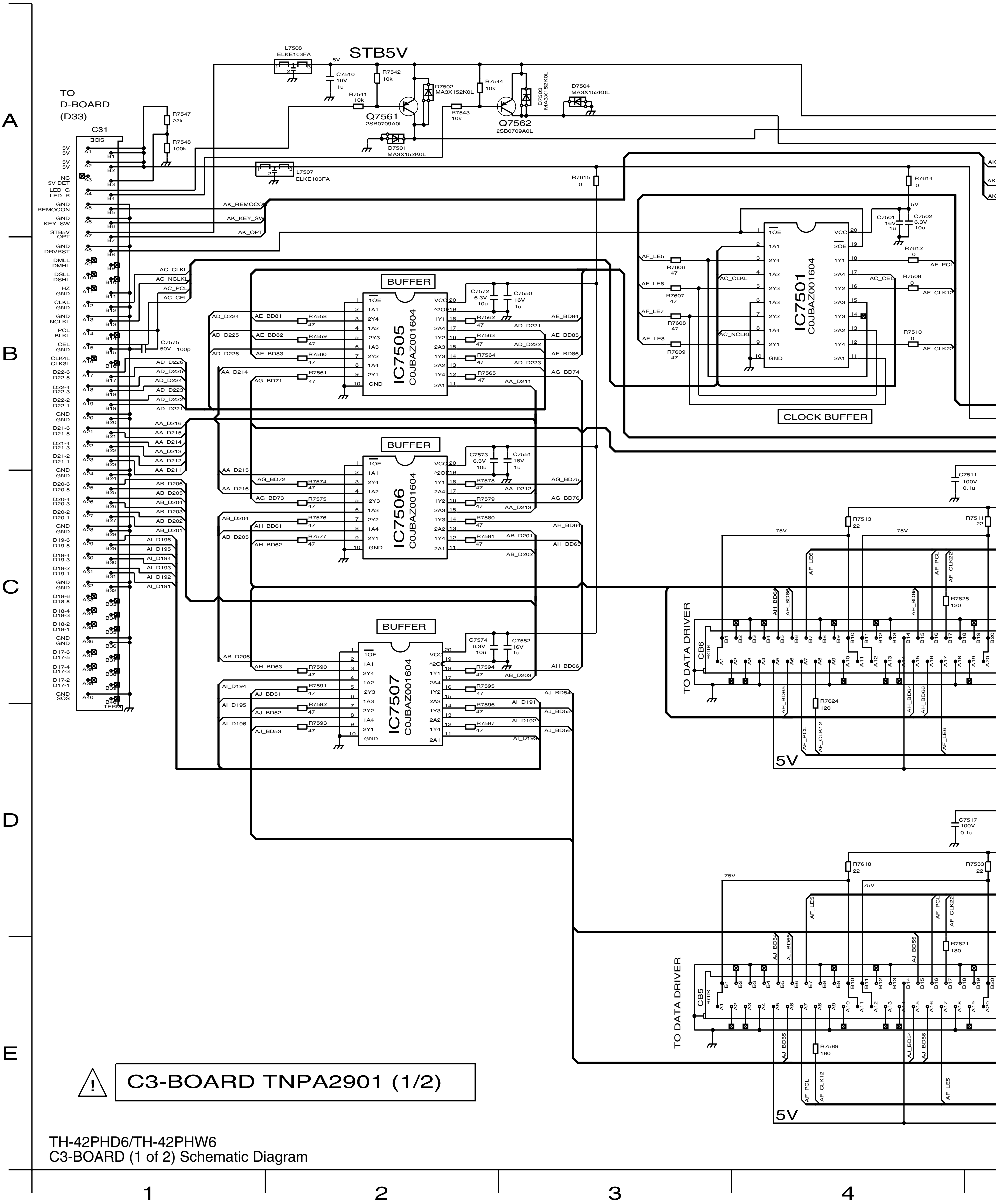

75V
B39
B40
TERM
A40


67V
B39
B40
TERM
A40

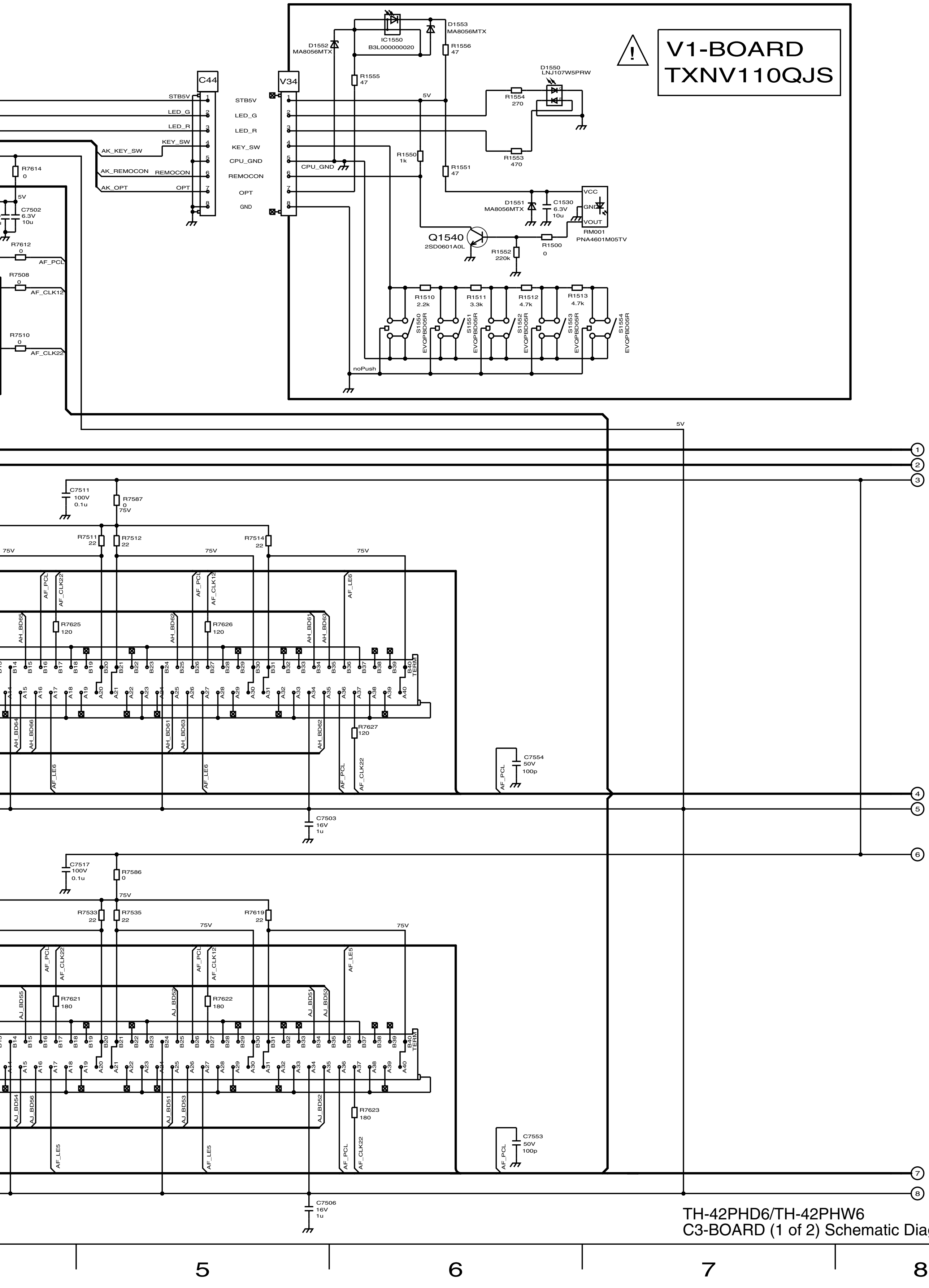
TH-42PHD6/TH-42PHW6
C2-BOARD (2 of 2) Schematic Diagram

12 13 14 15

14.44. C3-Board (1 of 2) Schematic Diagram

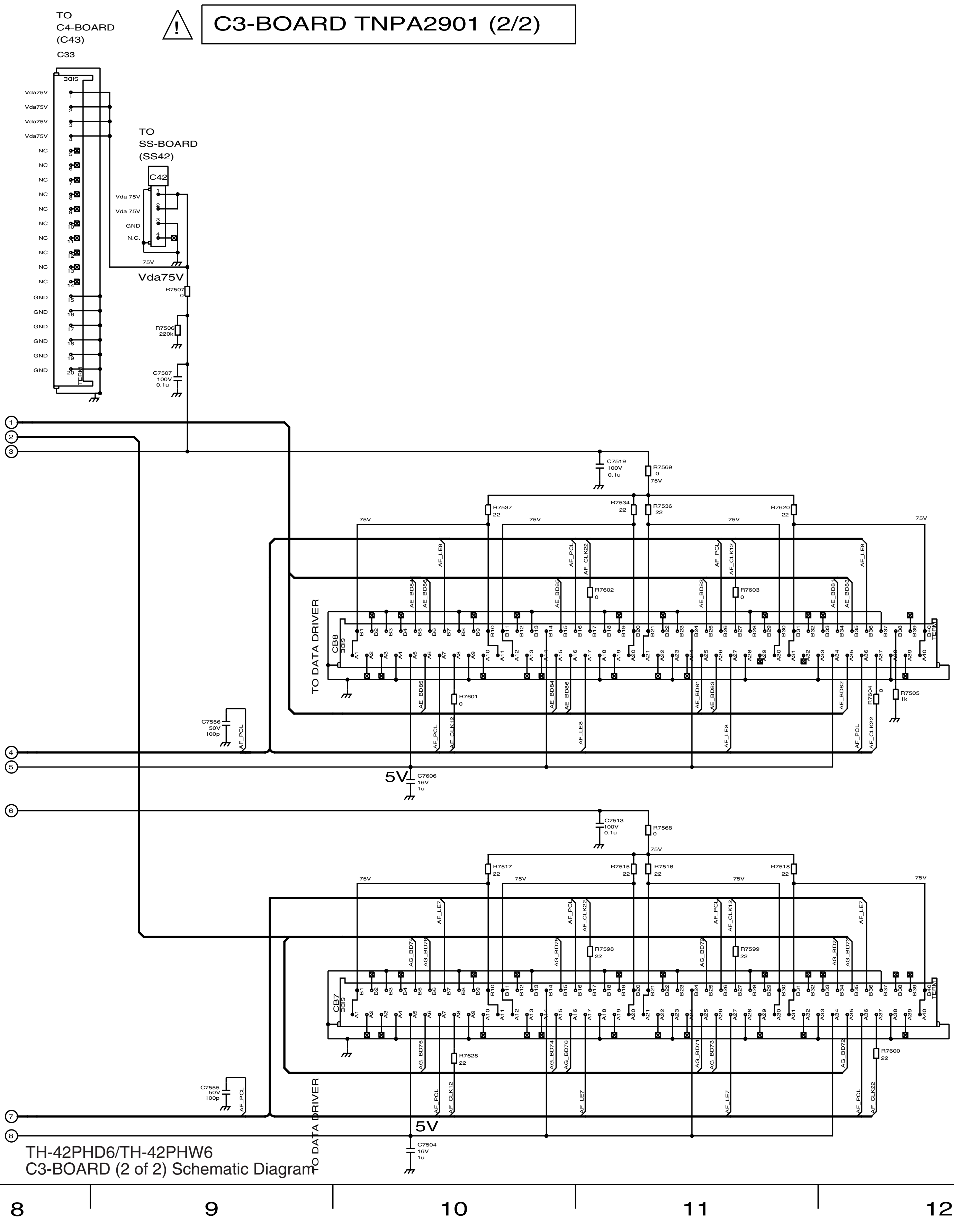

A
B
C
D
E
1
2
3
4
TO
D-BOARD
(D33)
C31
STB5V
5V
L7508
ELKE103FA
L7507
ELKE103FA
C7510
16V
1u
R7541
10k
R7542
10k
Q7561
2SB0709A0L
D7502
MA3X152K0L
D7501
MA3X152K0L
R7543
10k
R7544
10k
Q7562
2SB0709A0L
D7503
MA3X152K0L
D7504
MA3X152K0L
R7547
22k
R7548
100k
R7615
0
R7614
0
C7575
50V 100p
BUFFER
IC7505
C0JBAZ001604
C7572
6.3V
10u
C7550
16V
1u
BUFFER
IC7506
C0JBAZ001604
C7573
6.3V
10u
C7551
16V
1u
BUFFER
IC7507
C0JBAZ001604
C7574
6.3V
10u
C7552
16V
1u
IC7501
C0JBAZ001604
C7501
16V
1u
C7502
6.3V
10u
R7606
47
R7607
47
R7608
47
R7609
47
R7612
0
R7508
0
R7510
0
CLOCK BUFFER
AK_REMOCON
AK_KEY_SW
AK_OPT
AC_CLKL
AC_NCLKL
AC_PCL
AC_CEL
AF_LE5
AF_LE6
AF_LE7
AF_LE8
AF_PCL
AF_CLK12
AF_CLK22
C7511
100V
0.1u
R7513
22
R7511
22
75V
R7625
120
R7624
120
TO DATA DRIVER
CB6
5V
C7517
100V
0.1u
R7618
22
R7533
22
R7621
180
R7589
180
TO DATA DRIVER
CB5
5V
C3-BOARD TNPA2901 (1/2)

TH-42PHD6/TH-42PHW6
C3-BOARD (1 of 2) Schematic Diagram


V1-BOARD
TXNV110QJS
C44
V34
STB5V
LED_G
LED_R
KEY_SW
CPU_GND
REMOCON
OPT
GND
AK_KEY_SW
AK_REMOCON
AK_OPT
D1552
MA8056MTX
IC1550
B3L000000020
D1553
MA8056MTX
R1556
47
R1555
47
D1550
LNJ107W5PRW
R1554
270
R1553
470
R1550
1k
R1551
47
D1551
MA8056MTX
C1530
6.3V
10u
VCC
GND
VOUT
RM001
PNA4601M05TV
Q1540
2SD0601A0L
R1552
220k
R1500
0
R1510
2.2k
R1511
3.3k
R1512
4.7k
R1513
4.7k
S1550
S1551
S1552
S1553
S1554
EVQPBD05R
noPush
5V
R7614
0
C7502
6.3V
10u
R7612
0
AF_PCL
R7508
0
AF_CLK12
R7510
0
AF_CLK22
C7511
100V
0.1u
R7587
0
75V
R7511
22
R7512
22
R7514
22
AF_CLK22
AF_LE6
AH_BD65
AH_BD62
AH_BD61
AH_BD63
AH_BD64
AH_BD66
AH_BD62
R7625
120
R7626
120
R7627
120
TERM
C7554
50V
100p
C7503
16V
1u
C7517
100V
0.1u
R7586
0
R7533
22
R7535
22
R7619
22
AF_LE5
AJ_BD55
AJ_BD52
AJ_BD51
AJ_BD53
AJ_BD54
AJ_BD56
R7621
180
R7622
180
R7623
180
C7553
50V
100p
C7506
16V
1u
①
②
③
④
⑤
⑥
⑦
⑧
5
6
7
8

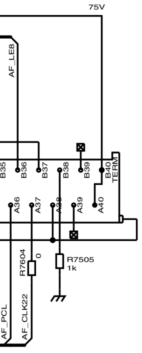
TH-42PHD6/TH-42PHW6
C3-BOARD (1 of 2) Schematic Diagram

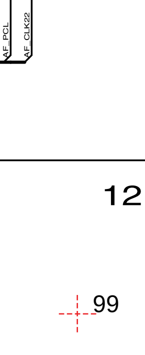
14.45. C3-Board (2 of 2) Schematic Diagram



C3-BOARD TNPA2901 (2/2)
TO C4-BOARD (C43)
C33
TO SS-BOARD (SS42)
C42
Vda75V
R7507 0
R7506 220k
C7507 100V 0.1u
C7519 100V 0.1u
R7569 0
R7537 22
R7534 22
R7536 22
R7620 22
R7602 0
R7603 0
R7601 0
R7604 0
R7505 1k
C7556 50V 100p
C7606 16V 1u
5V
CB8
TO DATA DRIVER
C7513 100V 0.1u
R7568 0
R7517 22
R7515 22
R7516 22
R7518 22
R7598 22
R7599 22
R7628 22
R7600 22
C7555 50V 100p
CB7
C7504 16V 1u
8
9
10
11
12

TH-42PHD6/TH-42PHW6
C3-BOARD (2 of 2) Schematic Diagram

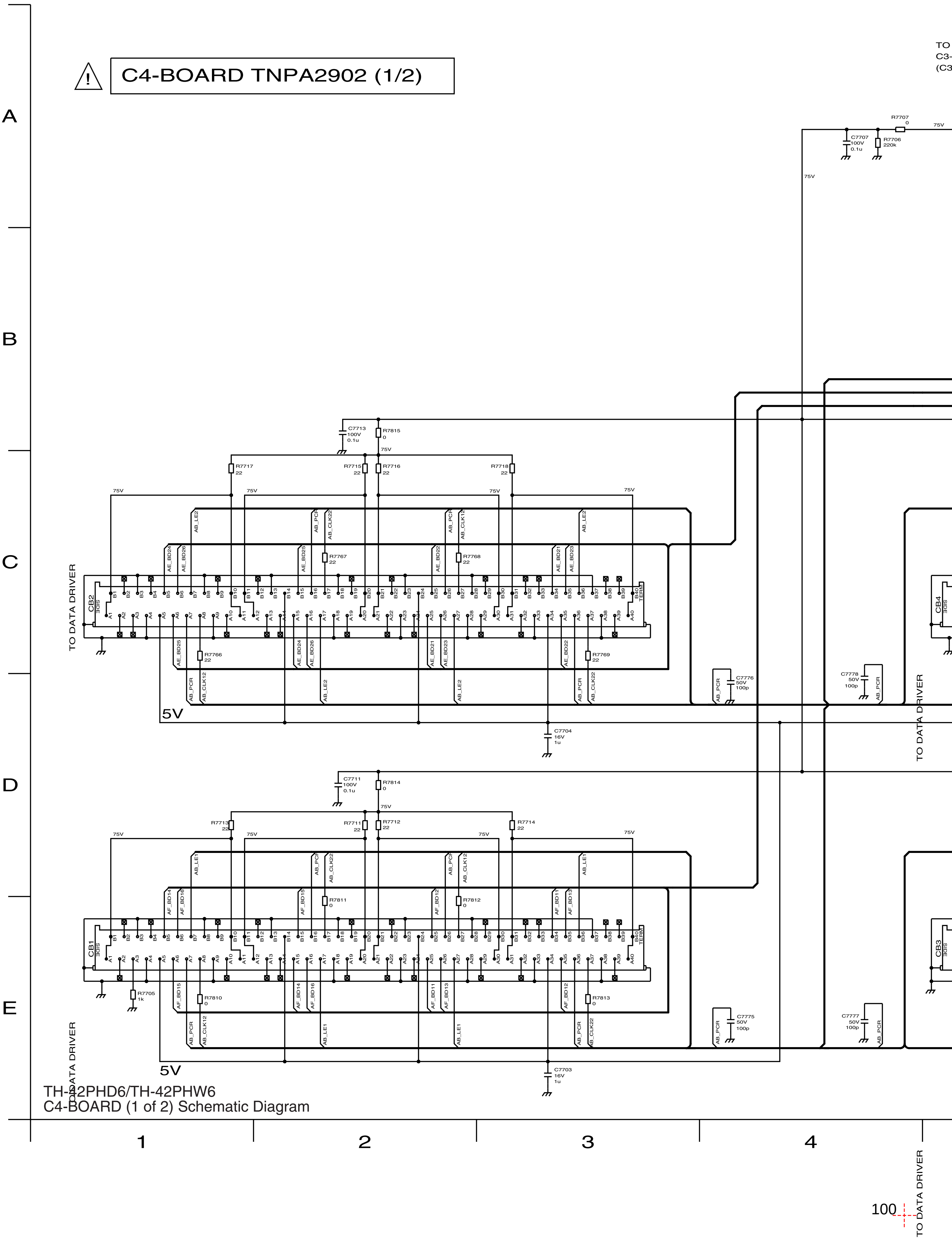

75V
AF_LE8
B35
B36
B37
B38
B39
B40
TERM
A36
A37
A38
A39
A40
R7604
0
R7505
1k
AF_PCL
AF_CLK22

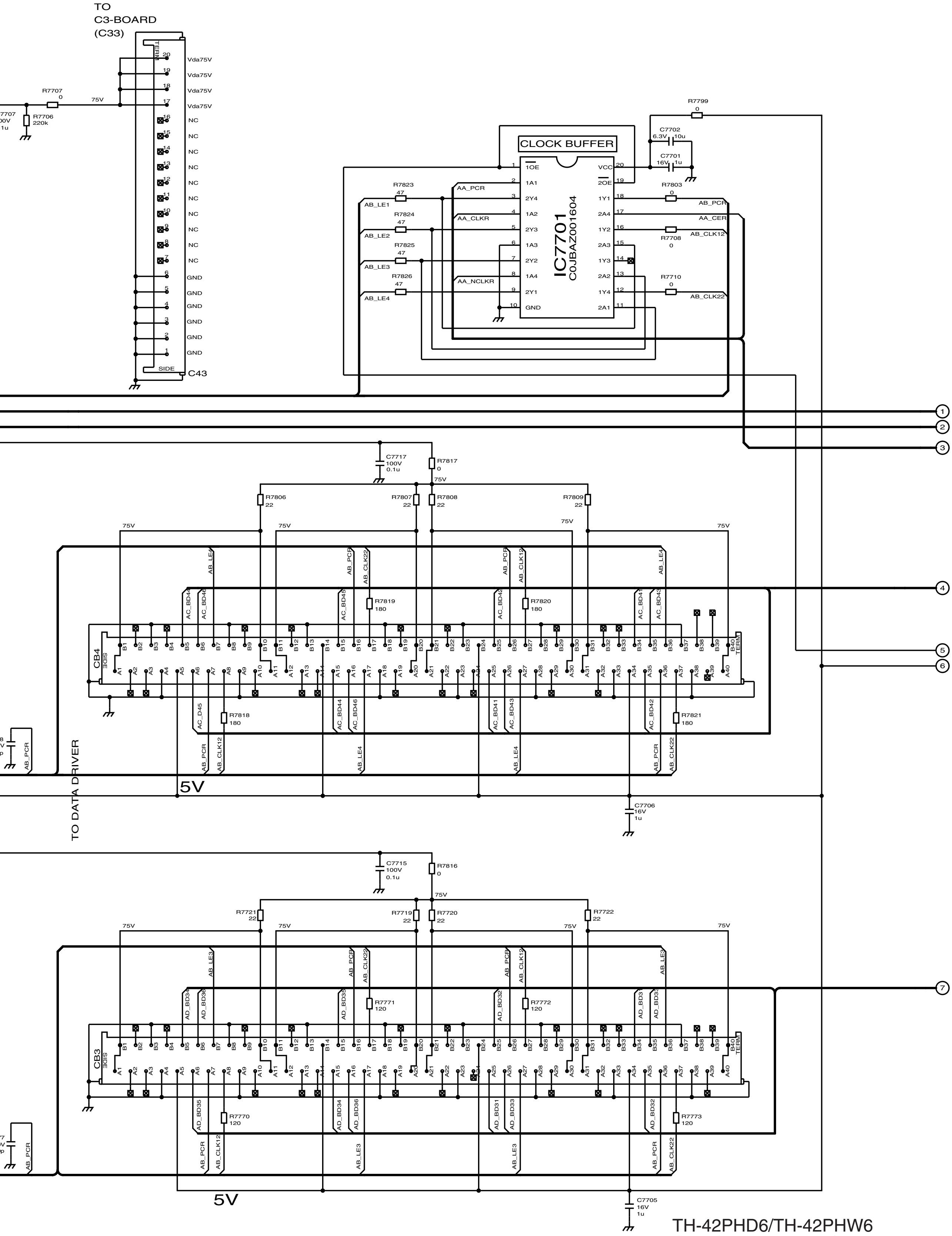

75V
AF_LE7
B35
B36
B37
B38
B39
B40
TERM
A36
A37
A38
A39
A40
R7600
22
AF_PCL
AF_CLK22

TH-42PHD6/TH-42PHW6
C3-BOARD (2 of 2) Schematic Diagram

12 13 14 15

14.46. C4-Board (1 of 2) Schematic Diagram


C4-BOARD TNPA2902 (1/2)
A
B
C
D
E
1
2
3
4
TO
C3-
(C3
R7707
0
75V
C7707
100V
0.1u
R7706
220k
75V
C7713
100V
0.1u
R7815
0
75V
R7717
22
R7715
22
R7716
22
R7718
22
75V
AB_LE2
AB_PCR
AB_CLK22
AB_CLK12
AE_BD24
AE_BD26
AE_BD25
AE_BD22
AE_BD21
AE_BD23
R7767
22
R7768
22
TO DATA DRIVER
CB2
CB4
SIDE
TERM
R7766
22
R7769
22
C7776
50V
100p
C7778
50V
100p
5V
C7704
16V
1u
C7711
100V
0.1u
R7814
0
R7713
22
R7711
22
R7712
22
R7714
22
AB_LE1
AF_BD14
AF_BD16
AF_BD15
AF_BD12
AF_BD11
AF_BD13
R7811
0
R7812
0
CB1
CB3
R7705
1k
R7810
0
R7813
0
C7775
50V
100p
C7777
50V
100p
C7703
16V
1u

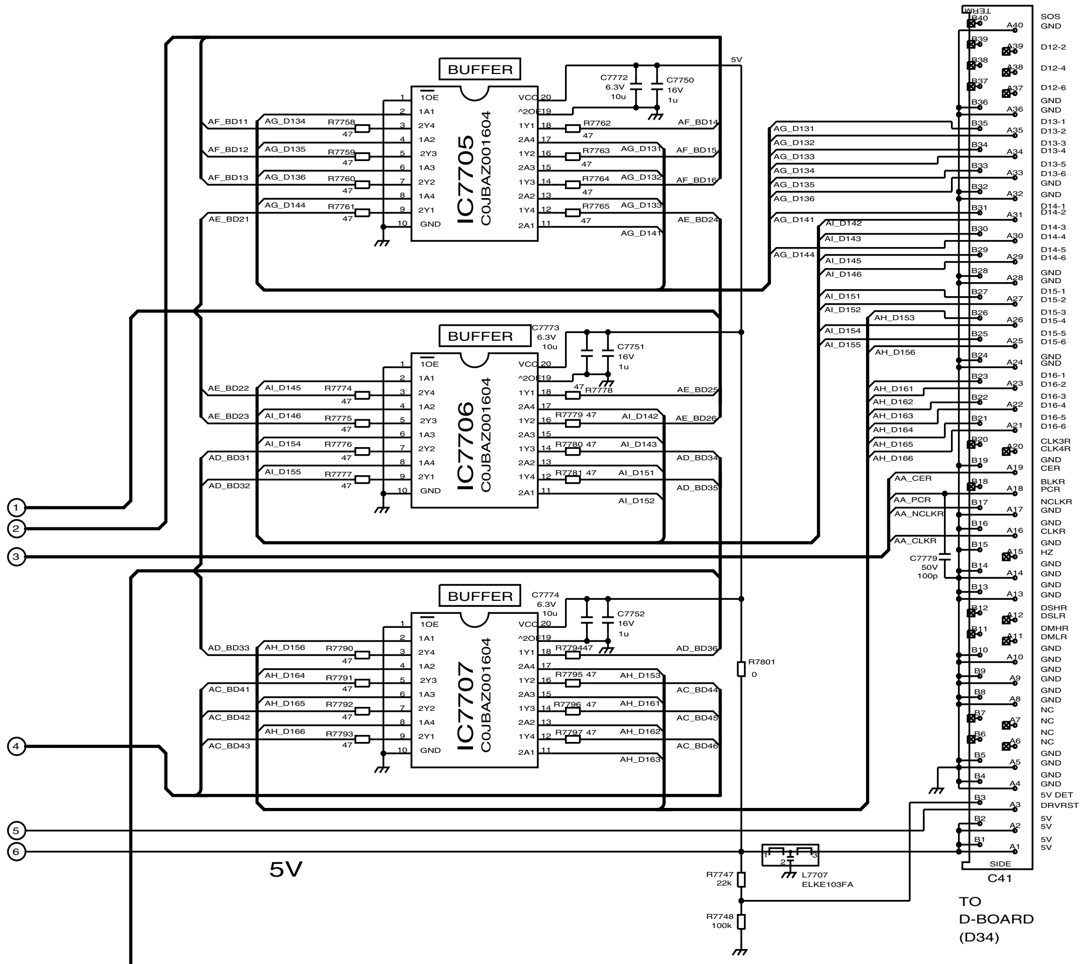

TO
C3-BOARD
(C33)
C43
Vda75V
NC
GND
SIDE
TERM
R7707
0
R7706
220k
75V
CLOCK BUFFER
IC7701
C0JBAZ001604
1OE
1A1
2Y4
1A2
2Y3
1A3
2Y2
1A4
2Y1
GND
VCC
2OE
1Y1
2A4
1Y2
2A3
1Y3
2A2
1Y4
2A1
R7799
0
C7702
6.3V
10u
C7701
16V
1u
R7823
47
R7824
47
R7825
47
R7826
47
R7803
0
R7708
0
R7710
0
AA_PCR
AA_CLKR
AA_NCLKR
AB_LE1
AB_LE2
AB_LE3
AB_LE4
AB_PCR
AA_CER
AB_CLK12
AB_CLK22
C7717
100V
0.1u
R7817
0
R7806
22
R7807
22
R7808
22
R7809
22
R7819
180
R7820
180
R7818
180
R7821
180
CB4
C7706
16V
1u
5V
TO DATA DRIVER
C7715
100V
0.1u
R7816
0
R7721
22
R7719
22
R7720
22
R7722
22
R7771
120
R7772
120
R7770
120
R7773
120
CB3
C7705
16V
1u
5V
1
2
3
4
5
6
7

TH-42PHD6/TH-42PHW6
C4-BOARD (1 of 2) Schematic Diagram

5 6 7 8

TO DATA DRIVER

14.47. C4-Board (2 of 2) Schematic Diagram


BUFFER
IC7705
C0JBAZ001604
IC7706
C0JBAZ001604
IC7707
C0JBAZ001604
1OE
1A1
2Y4
1A2
2Y3
1A3
2Y2
1A4
2Y1
GND
VCC
^2OE
1Y1
2A4
1Y2
2A3
1Y3
2A2
1Y4
2A1
AF_BD11
AF_BD12
AF_BD13
AE_BD21
AF_BD14
AF_BD15
AF_BD16
AE_BD24
AE_BD22
AE_BD23
AD_BD31
AD_BD32
AE_BD25
AE_BD26
AD_BD34
AD_BD35
AD_BD33
AC_BD41
AC_BD42
AC_BD43
AD_BD36
AC_BD44
AC_BD45
AC_BD46
AG_D134
AG_D135
AG_D136
AG_D144
AG_D131
AG_D132
AG_D133
AG_D141
AI_D145
AI_D146
AI_D154
AI_D155
AI_D142
AI_D143
AI_D151
AI_D152
AH_D156
AH_D164
AH_D165
AH_D166
AH_D153
AH_D161
AH_D162
AH_D163
R7758 47
R7759 47
R7760 47
R7761 47
R7762 47
R7763 47
R7764 47
R7765 47
R7774 47
R7775 47
R7776 47
R7777 47
R7778 47
R7779 47
R7780 47
R7781 47
R7790 47
R7791 47
R7792 47
R7793 47
R7794 47
R7795 47
R7796 47
R7797 47
C7772 6.3V 10u
C7750 16V 1u
C7773 6.3V 10u
C7751 16V 1u
C7774 6.3V 10u
C7752 16V 1u
5V
R7801 0
R7747 22k
R7748 100k
L7707 ELKE103FA
AA_CER
AA_PCR
AA_NCLKR
AA_CLKR
C7779 50V 100p
AG_D131
AG_D132
AG_D133
AG_D134
AG_D135
AG_D136
AG_D141
AG_D144
AI_D142
AI_D143
AI_D145
AI_D146
AI_D151
AI_D152
AI_D154
AI_D155
AH_D153
AH_D156
AH_D161
AH_D162
AH_D163
AH_D164
AH_D165
AH_D166
TERM
SIDE
C41
SOS GND
D12-2
D12-4
D12-6
GND GND
D13-1 D13-2
D13-3 D13-4
D13-5 D13-6
GND
GND
D14-1 D14-2
D14-3 D14-4
D14-5 D14-6
GND GND
D15-1 D15-2
D15-3 D15-4
D15-5 D15-6
GND GND
D16-1 D16-2
D16-3 D16-4
D16-5 D16-6
CLK3R CLK4R
GND CER
BLKR PCR
NCLKR GND
GND CLKR
GND HZ
GND GND
GND GND
DSHR DSLR
DMHR DMLR
GND GND
GND GND
GND GND
NC NC
NC NC
GND GND
GND GND
5V DET DRVRST
5V 5V
5V 5V
TO
D-BOARD
(D34)
1
2
3
4
5
6
7
5V

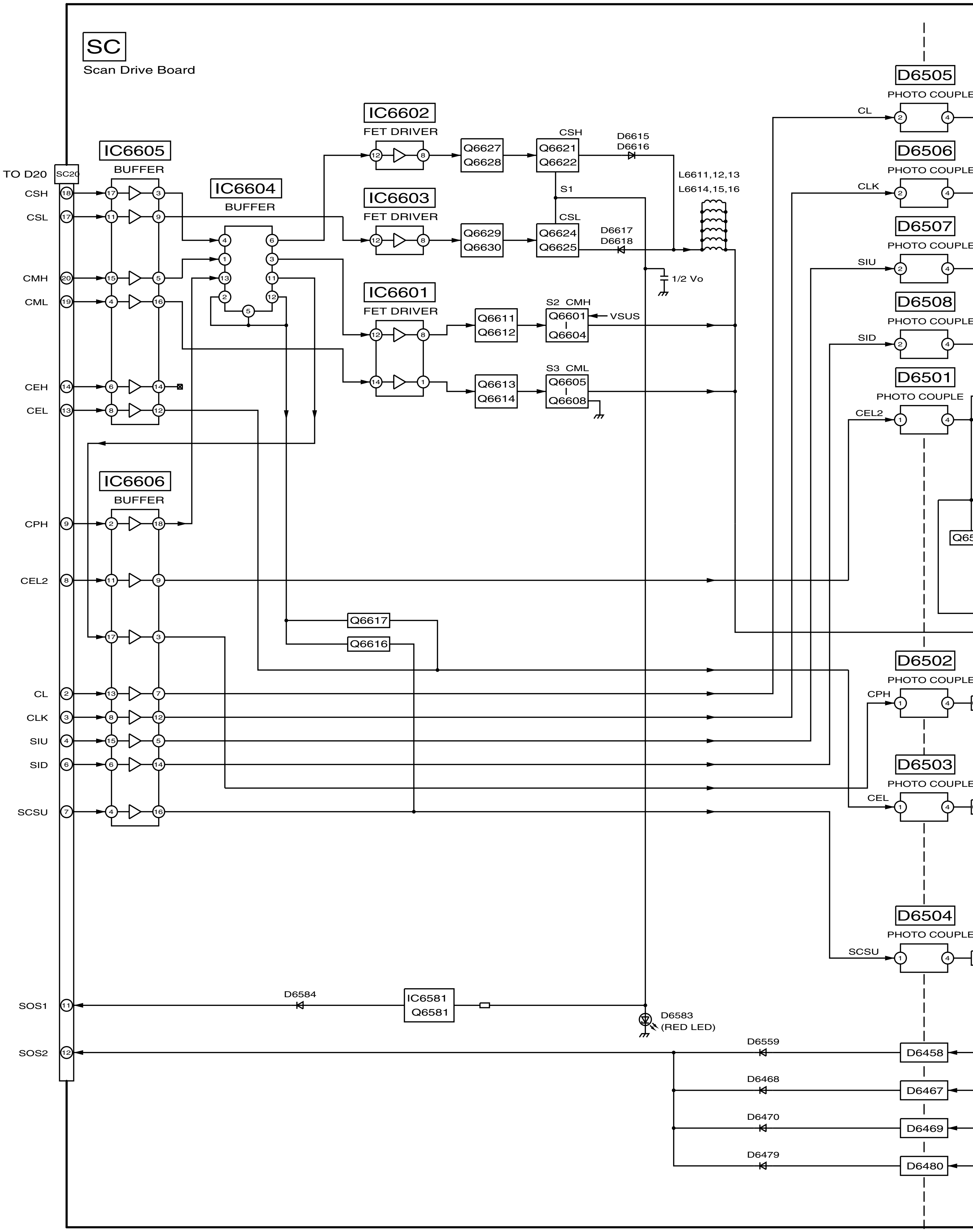
⚠ C4-BOARD TNPA2902 (2/2)

TH-42PHD6/TH-42PHW6
C4-BOARD (2 of 2) Schematic Diagram

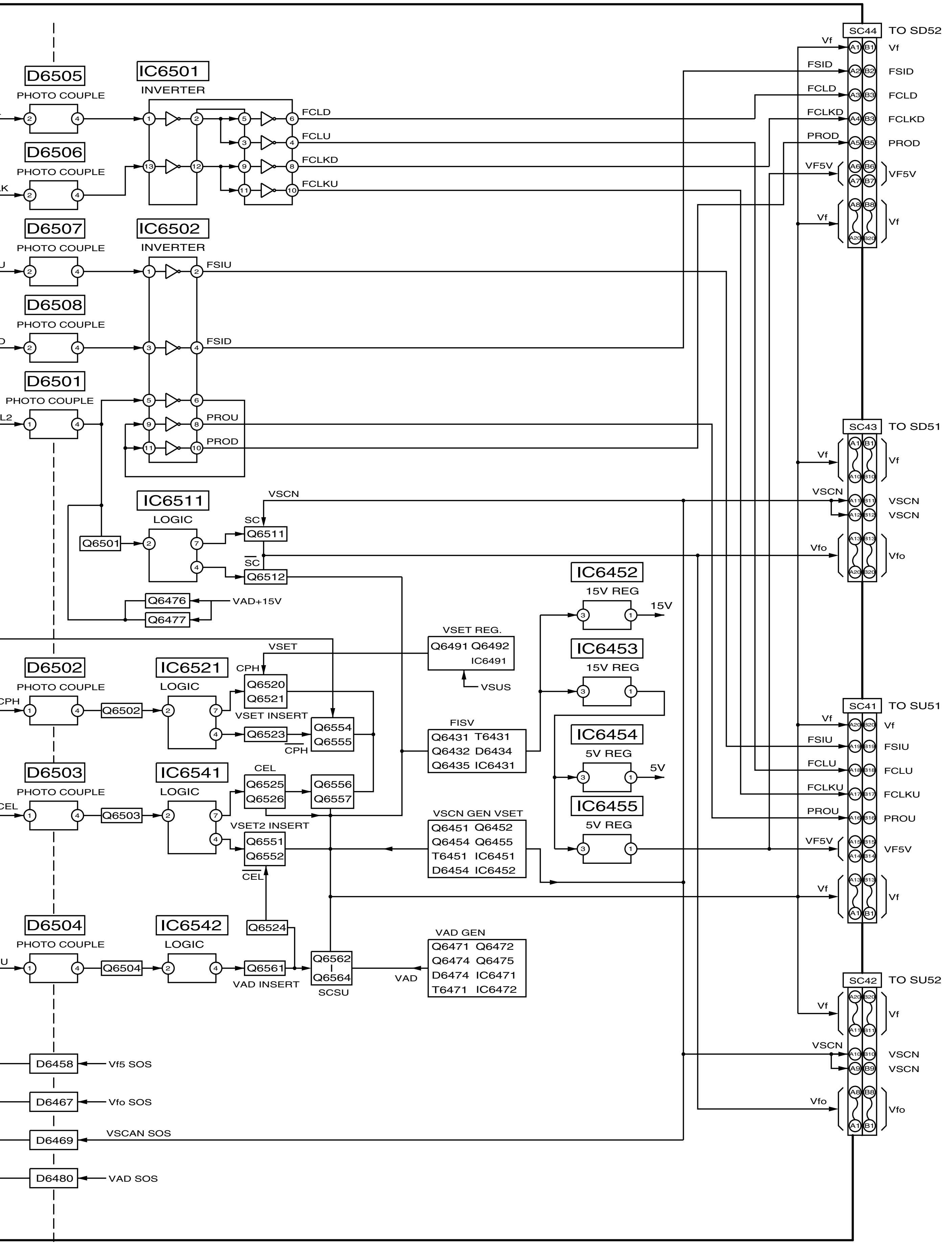
TH-42PHD6/TH-42PHW6
C4-BOARD (2 of 2) Schematic Diagram

12 13 14 15

14.48. SC-Board Block Diagram

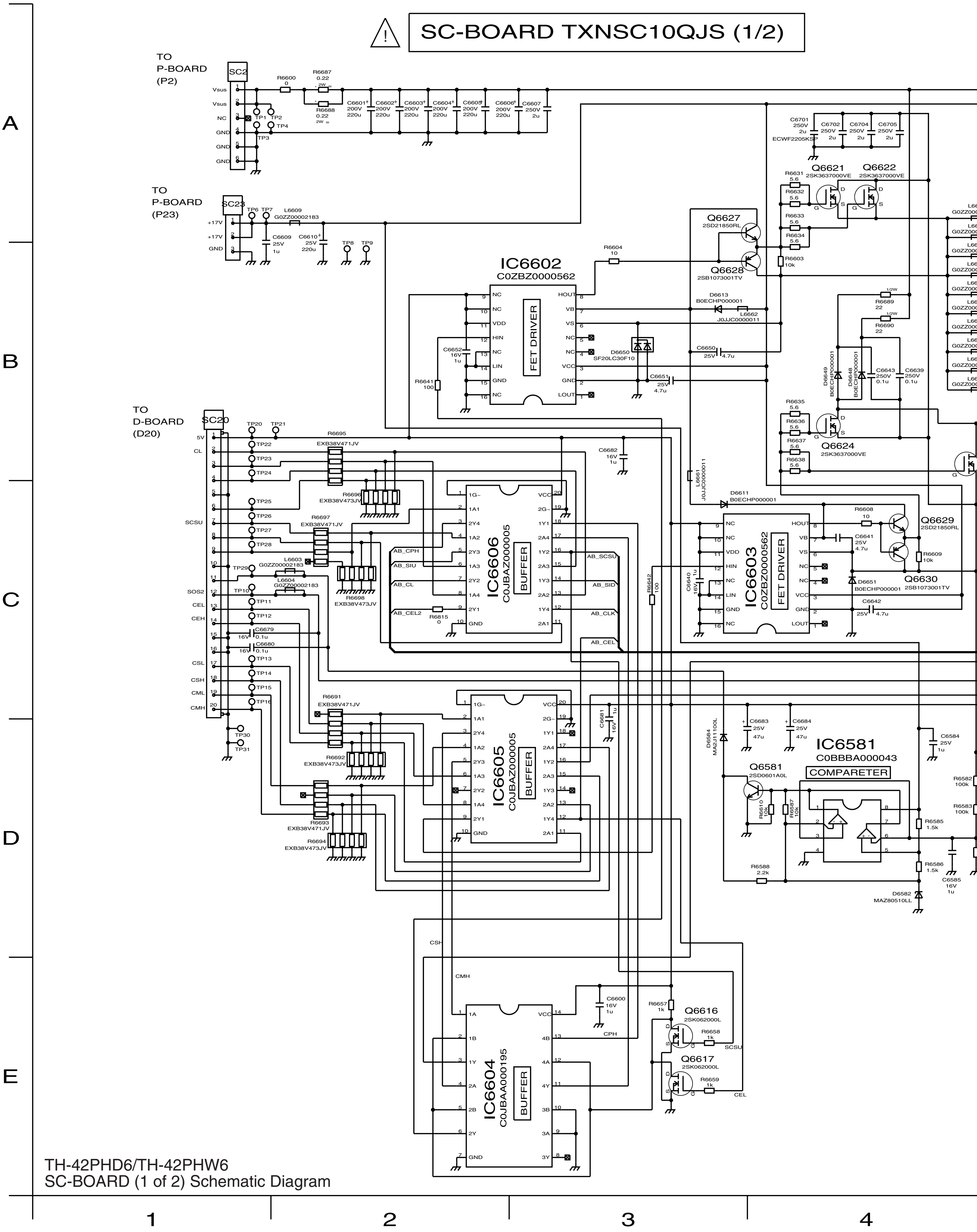

SC
Scan Drive Board
TO D20
SC20
CSH
CSL
CMH
CML
CEH
CEL
CPH
CEL2
CL
CLK
SIU
SID
SCSU
SOS1
SOS2
IC6605
BUFFER
IC6604
BUFFER
IC6606
BUFFER
IC6602
FET DRIVER
IC6603
FET DRIVER
IC6601
FET DRIVER
Q6627
Q6628
Q6629
Q6630
Q6611
Q6612
Q6613
Q6614
CSH
Q6621
Q6622
S1
CSL
Q6624
Q6625
D6615
D6616
D6617
D6618
L6611,12,13
L6614,15,16
1/2 Vo
S2 CMH
Q6601
Q6604
VSUS
S3 CML
Q6605
Q6608
Q6617
Q6616
D6584
IC6581
Q6581
D6583
(RED LED)
D6559
D6468
D6470
D6479
D6458
D6467
D6469
D6480
D6505
PHOTO COUPLE
D6506
PHOTO COUPLE
D6507
PHOTO COUPLE
D6508
PHOTO COUPLE
D6501
PHOTO COUPLE
D6502
PHOTO COUPLE
D6503
PHOTO COUPLE
D6504
PHOTO COUPLE
CL
CLK
SIU
SID
CEL2
CPH
CEL
SCSU
Q65

TH-42PHD6/TH-42PHW6 SC-BOARD Block Diagram

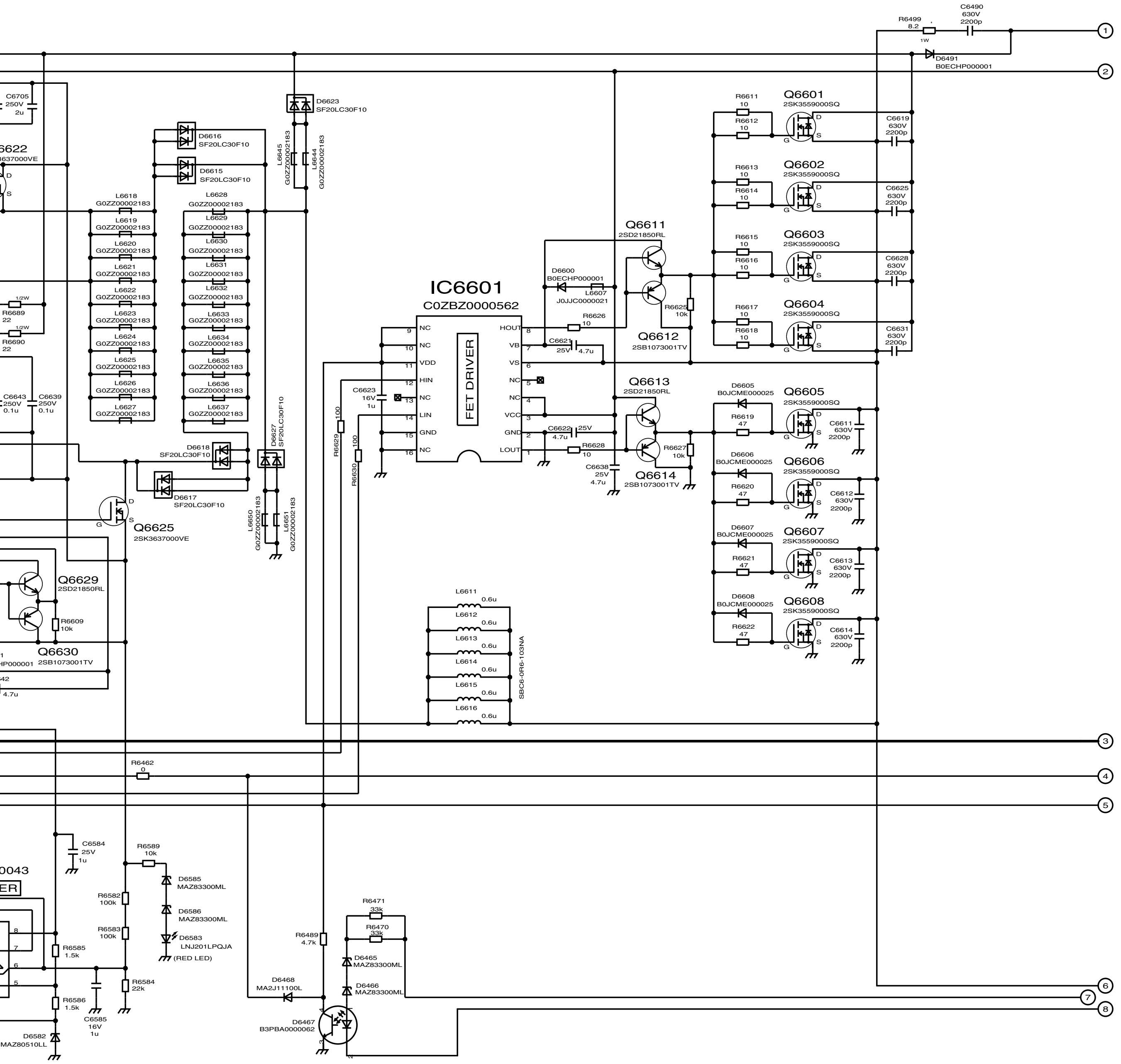

D6505
PHOTO COUPLE
IC6501
INVERTER
FCLD
FCLU
FCLKD
FCLKU
D6506
PHOTO COUPLE
D6507
PHOTO COUPLE
IC6502
INVERTER
FSIU
D6508
PHOTO COUPLE
FSID
D6501
PHOTO COUPLE
PROU
PROD
IC6511
LOGIC
VSCN
SC
Q6511
Q6501
SC
Q6512
Q6476
Q6477
VAD+15V
IC6452
15V REG
15V
IC6453
15V REG
VSET REG.
Q6491 Q6492
IC6491
VSUS
VSET
D6502
PHOTO COUPLE
CPH
Q6502
IC6521
LOGIC
CPH
Q6520
Q6521
VSET INSERT
Q6523
CPH
Q6554
Q6555
FISV
Q6431 T6431
Q6432 D6434
Q6435 IC6431
IC6454
5V REG
5V
D6503
PHOTO COUPLE
CEL
Q6503
IC6541
LOGIC
CEL
Q6525
Q6526
Q6556
Q6557
VSET2 INSERT
Q6551
Q6552
CEL
VSCN GEN VSET
Q6451 Q6452
Q6454 Q6455
T6451 IC6451
D6454 IC6452
IC6455
5V REG
D6504
PHOTO COUPLE
Q6504
IC6542
LOGIC
Q6524
Q6561
VAD INSERT
Q6562
Q6564
SCSU
VAD
VAD GEN
Q6471 Q6472
Q6474 Q6475
D6474 IC6471
T6471 IC6472
D6458
Vf5 SOS
D6467
Vfo SOS
D6469
VSCAN SOS
D6480
VAD SOS
SC44
TO SD52
Vf
FSID
FCLD
FCLKD
PROD
VF5V
Vf
SC43
TO SD51
Vf
VSCN
VSCN
VSCN
Vfo
Vfo
SC41
TO SU51
Vf
FSIU
FCLU
FCLKU
PROU
VF5V
Vf
SC42
TO SU52
Vf
VSCN
VSCN
VSCN
Vfo
Vfo

TH-42PHD6/TH-42PHW6 SC-BOARD Block Diagram

14.49. SC-Board (1 of 2) Schematic Diagram


SC-BOARD TXNSC10QJS (1/2)
TO P-BOARD (P2)
SC2
Vsus
NC
GND
TO P-BOARD (P23)
SC23
+17V
TO D-BOARD (D20)
SC20
5V
CL
SCSU
SOS2
CEL
CEH
CSL
CSH
CML
CMH
IC6602
C0ZBZ0000562
FET DRIVER
IC6603
C0ZBZ0000562
FET DRIVER
IC6606
C0JBAZ000005
BUFFER
IC6605
C0JBAZ000005
BUFFER
IC6604
C0JBAA000195
BUFFER
IC6581
C0BBBA000043
COMPARETER
Q6621
2SK3637000VE
Q6622
2SK3637000VE
Q6624
2SK3637000VE
Q6627
2SD21850RL
Q6628
2SB1073001TV
Q6629
2SD21850RL
Q6630
2SB1073001TV
Q6581
2SD0601A0L
Q6616
2SK062000L
Q6617
2SK062000L
D6650
SF20LC30F10
D6582
MAZ80510LL
AB_CPH
AB_SIU
AB_CL
AB_CEL2
AB_SCSU
AB_SID
AB_CLK
AB_CEL
CSH
CMH
CPH
SCSU
CEL
A
B
C
D
E
1
2
3
4

TH-42PHD6/TH-42PHW6
SC-BOARD (1 of 2) Schematic Diagram

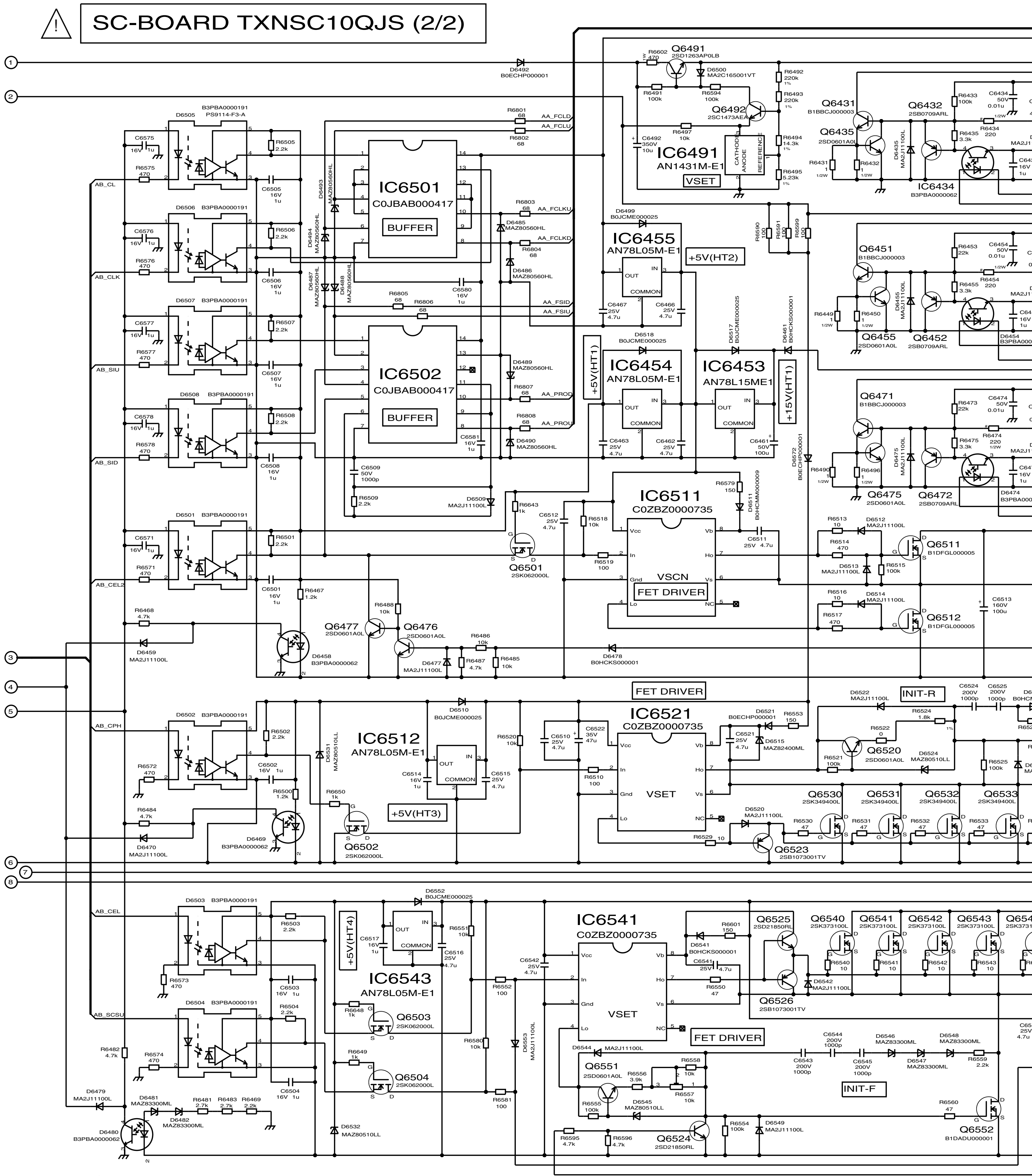


C6490 630V 2200p
R6499 8.2 1W
D6491 B0ECHP000001
C6705 250V 2u
Q6622 2SK3637000VE
D6623 SF20LC30F10
D6616 SF20LC30F10
D6615 SF20LC30F10
L6645 G0ZZ00002183
L6644 G0ZZ00002183
L6618 G0ZZ00002183
L6619 G0ZZ00002183
L6620 G0ZZ00002183
L6621 G0ZZ00002183
L6622 G0ZZ00002183
L6623 G0ZZ00002183
L6624 G0ZZ00002183
L6625 G0ZZ00002183
L6626 G0ZZ00002183
L6627 G0ZZ00002183
L6628 G0ZZ00002183
L6629 G0ZZ00002183
L6630 G0ZZ00002183
L6631 G0ZZ00002183
L6632 G0ZZ00002183
L6633 G0ZZ00002183
L6634 G0ZZ00002183
L6635 G0ZZ00002183
L6636 G0ZZ00002183
L6637 G0ZZ00002183
R6689 22 1/2W
R6690 22 1/2W
C6643 250V 0.1u
C6639 250V 0.1u
D6618 SF20LC30F10
D6617 SF20LC30F10
D6627 SF20LC30F10
L6650 G0ZZ00002183
L6651 G0ZZ00002183
Q6625 2SK3637000VE
Q6629 2SD21850RL
R6609 10k
Q6630 2SB1073001TV
IC6601
C0ZBZ0000562
FET DRIVER
NC VDD HIN NC LIN GND NC
HOUT VB VS NC NC VCC GND LOUT
C6623 16V 1u
R6629 100
R6630 100
D6600 B0ECHP000001
L6607 J0JJC0000021
Q6611 2SD21850RL
Q6612 2SB1073001TV
R6625 10k
R6626 10
C6621 25V 4.7u
Q6613 2SD21850RL
Q6614 2SB1073001TV
R6627 10k
R6628 10
C6622 25V 4.7u
C6638 25V 4.7u
R6611 10
R6612 10
R6613 10
R6614 10
R6615 10
R6616 10
R6617 10
R6618 10
Q6601 2SK3559000SQ
Q6602 2SK3559000SQ
Q6603 2SK3559000SQ
Q6604 2SK3559000SQ
C6619 630V 2200p
C6625 630V 2200p
C6628 630V 2200p
C6631 630V 2200p
D6605 B0JCME000025
D6606 B0JCME000025
D6607 B0JCME000025
D6608 B0JCME000025
R6619 47
R6620 47
R6621 47
R6622 47
Q6605 2SK3559000SQ
Q6606 2SK3559000SQ
Q6607 2SK3559000SQ
Q6608 2SK3559000SQ
C6611 630V 2200p
C6612 630V 2200p
C6613 630V 2200p
C6614 630V 2200p
L6611 0.6u
L6612 0.6u
L6613 0.6u
L6614 0.6u
L6615 0.6u
L6616 0.6u
SBC6-0R6-103NA
R6462 0
C6584 25V 1u
R6589 10k
D6585 MAZ83300ML
D6586 MAZ83300ML
D6583 LNJ201LPQJA
(RED LED)
R6582 100k
R6583 100k
R6584 22k
R6585 1.5k
R6586 1.5k
C6585 16V 1u
D6582 MAZ80510LL
R6471 33k
R6470 33k
R6489 4.7k
D6465 MAZ83300ML
D6466 MAZ83300ML
D6468 MA2J11100L
D6467 B3PBA0000062
①
②
③
④
⑤
⑥
⑦
⑧

TH-42PHD6/TH-42PHW6
SC-BOARD (1 of 2) Schematic Diagram

5 6 7 8

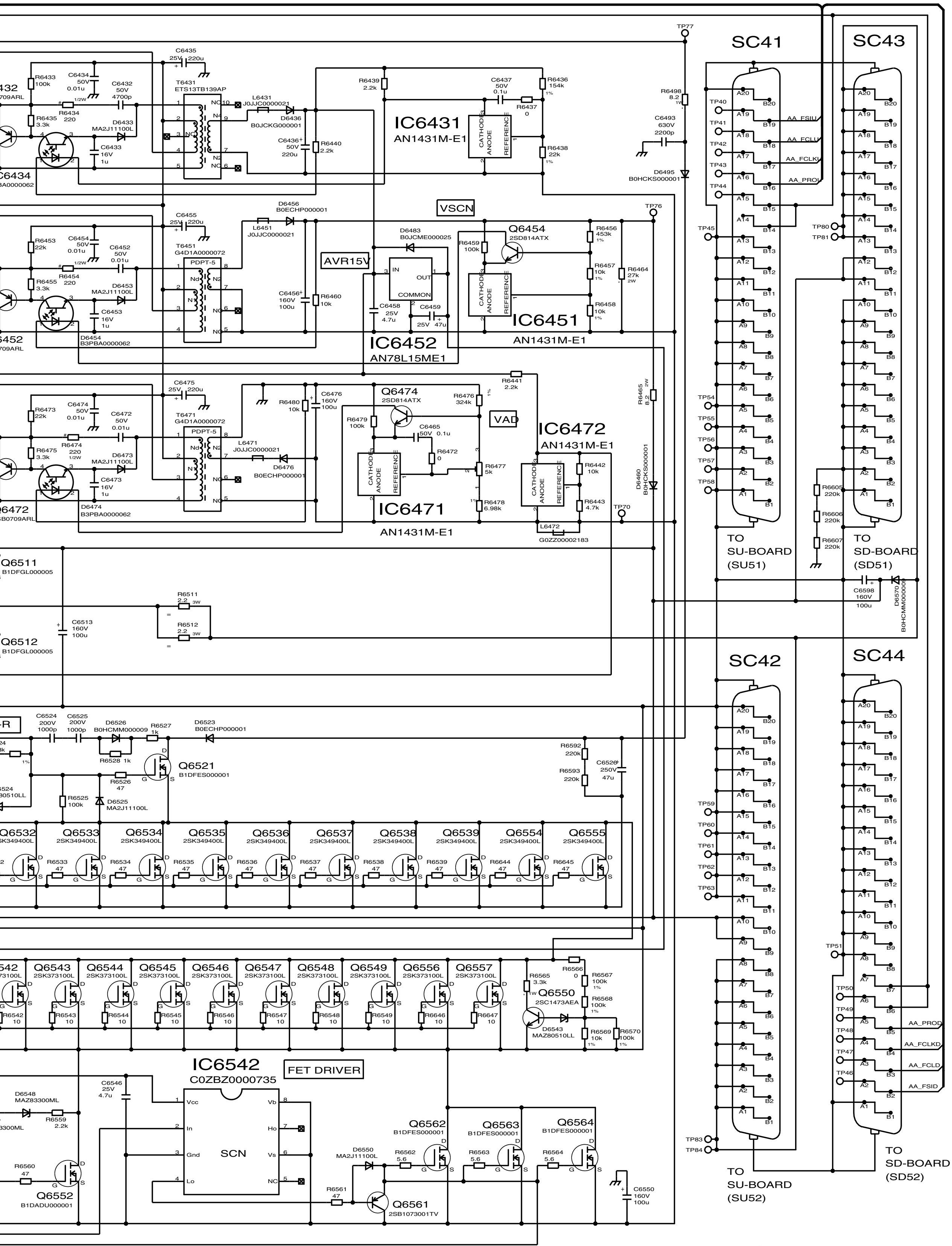
14.50. SC-Board (2 of 2) Schematic Diagram



SC-BOARD TXNSC10QJS (2/2)
1
2
3
4
5
6
7
8
AB_CL
AB_CLK
AB_SIU
AB_SID
AB_CEL2
AB_CPH
AB_CEL
AB_SCSU
AA_FCLD
AA_FCLU
AA_FCLKU
AA_FCLKD
AA_FSID
AA_FSIU
AA_PROD
AA_PROU
D6505 B3PBA0000191 PS9114-F3-A
D6506 B3PBA0000191
D6507 B3PBA0000191
D6508 B3PBA0000191
D6501 B3PBA0000191
D6502 B3PBA0000191
D6503 B3PBA0000191
D6504 B3PBA0000191
IC6501
C0JBAB000417
BUFFER
IC6502
C0JBAB000417
BUFFER
D6492 B0ECHP000001
Q6491 2SD1263AP0LB
D6500 MA2C165001VT
Q6492 2SC1473AEA
IC6491
AN1431M-E1
VSET
CATHODE
ANODE
REFERENCE
IC6455
AN78L05M-E1
+5V(HT2)
IC6454
AN78L05M-E1
IC6453
AN78L15ME1
+5V(HT1)
+15V(HT1)
OUT
IN
COMMON
Q6431 B1BBCJ000003
Q6432 2SB0709ARL
Q6435 2SD0601A0L
IC6434 B3PBA0000062
Q6451 B1BBCJ000003
Q6455 2SD0601A0L
Q6452 2SB0709ARL
Q6471 B1BBCJ000003
Q6475 2SD0601A0L
Q6472 2SB0709ARL
IC6511
C0ZBZ0000735
VSCN
FET DRIVER
Vcc
In
Gnd
Lo
Vb
Ho
Vs
NC
Q6501 2SK062000L
Q6511 B1DFGL000005
Q6512 B1DFGL000005
Q6477 2SD0601A0L
Q6476 2SD0601A0L
D6458 B3PBA0000062
D6459 MA2J11100L
D6478 B0HCKS000001
IC6512
AN78L05M-E1
+5V(HT3)
Q6502 2SK062000L
D6469 B3PBA0000062
D6470 MA2J11100L
IC6521
C0ZBZ0000735
VSET
FET DRIVER
INIT-R
Q6520 2SD0601A0L
Q6523 2SB1073001TV
Q6530 2SK349400L
Q6531 2SK349400L
Q6532 2SK349400L
Q6533 2SK349400L
IC6543
AN78L05M-E1
+5V(HT4)
Q6503 2SK062000L
Q6504 2SK062000L
IC6541
C0ZBZ0000735
VSET
FET DRIVER
INIT-F
Q6525 2SD21850RL
Q6526 2SB1073001TV
Q6540 2SK373100L
Q6541 2SK373100L
Q6542 2SK373100L
Q6543 2SK373100L
Q6551 2SD0601A0L
Q6524 2SD21850RL
Q6552 B1DADU000001
D6479 MA2J11100L
D6480 B3PBA0000062
D6481 MAZ83300ML
D6482 MAZ83300ML
D6532 MAZ80510LL

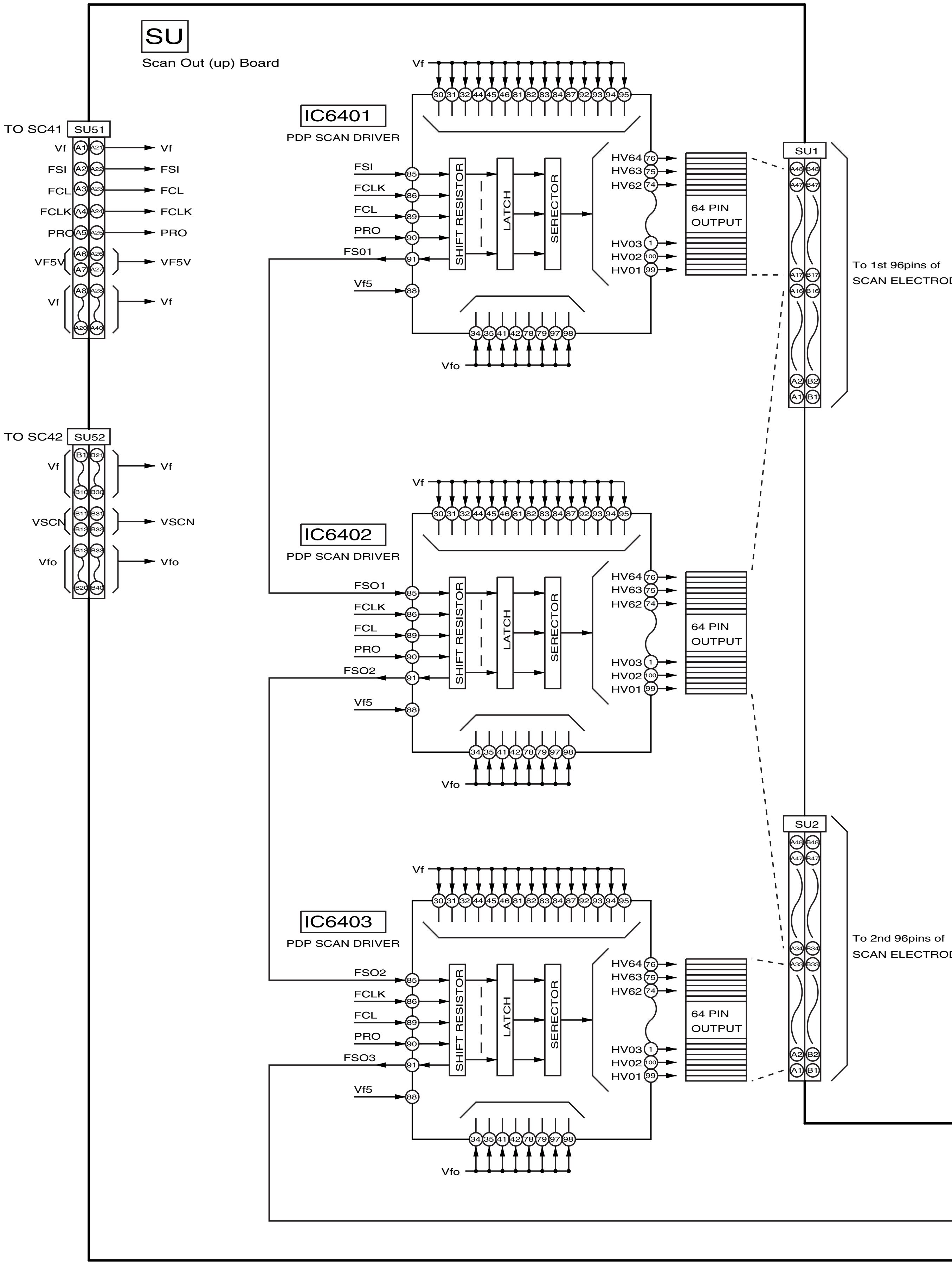
TH-42PHD6/TH-42PHW6
SC-BOARD (2 of 2) Schematic Diagram

8 9 10 11 12

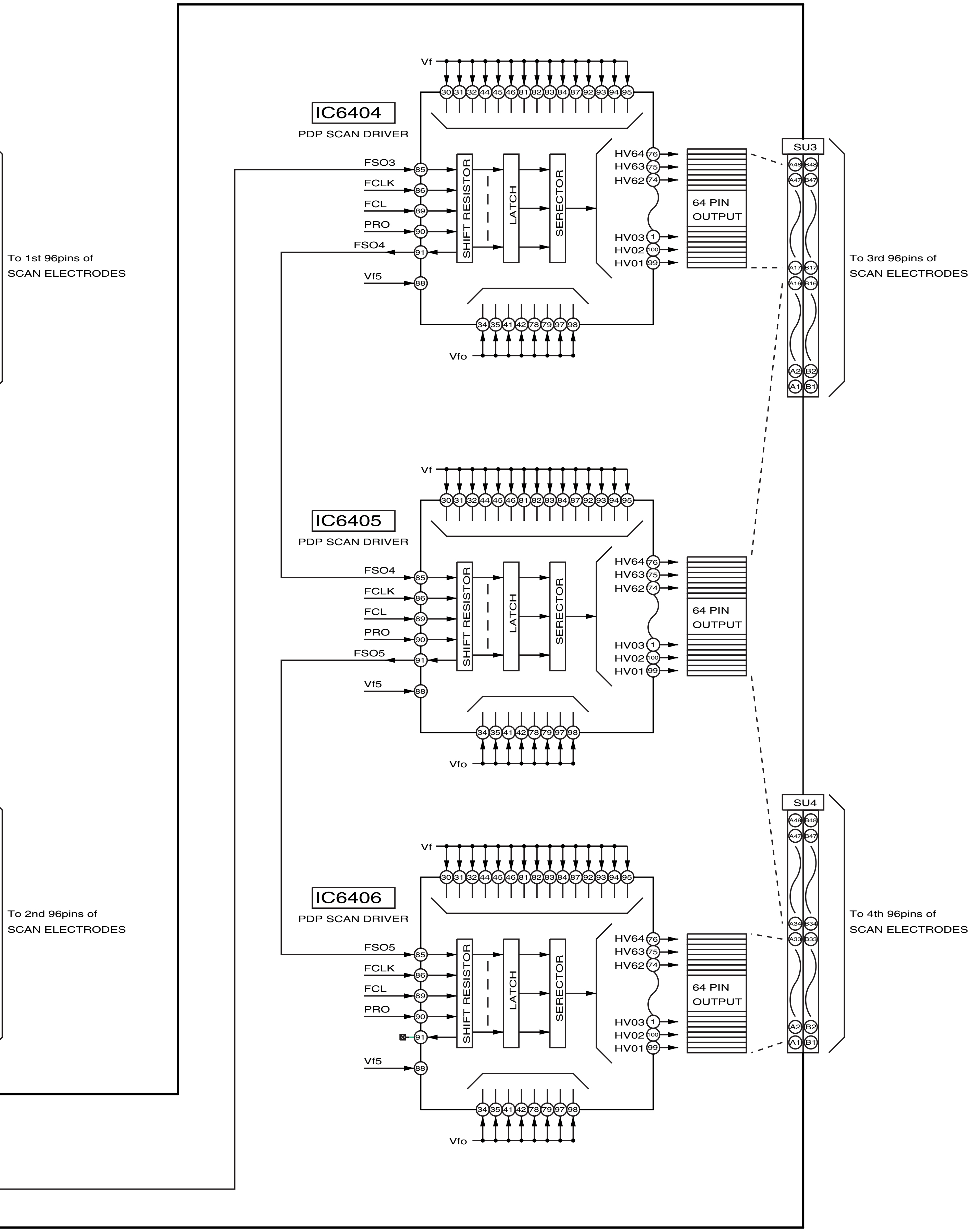

SC41
SC43
SC42
SC44
IC6431
AN1431M-E1
IC6451
AN1431M-E1
IC6452
AN78L15ME1
IC6471
AN1431M-E1
IC6472
AN1431M-E1
IC6542
C0ZBZ0000735
FET DRIVER
SCN
VSCN
AVR15V
VAD
Q6454
2SD814ATX
Q6474
2SD814ATX
Q6511
B1DFGL000005
Q6512
B1DFGL000005
Q6521
B1DFES000001
Q6532
Q6533
Q6534
Q6535
Q6536
Q6537
Q6538
Q6539
Q6554
Q6555
2SK349400L
Q6543
Q6544
Q6545
Q6546
Q6547
Q6548
Q6549
Q6556
Q6557
2SK373100L
Q6550
2SC1473AEA
Q6552
B1DADU000001
Q6561
2SB1073001TV
Q6562
Q6563
Q6564
B1DFES000001
T6431
ETS13TB139AP
T6451
G4D1A0000072
T6471
G4D1A0000072
PDPT-5
TO SU-BOARD (SU51)
TO SD-BOARD (SD51)
TO SU-BOARD (SU52)
TO SD-BOARD (SD52)
AA_FSIU
AA_FCLU
AA_FCLKU
AA_PROU
AA_PROD
AA_FCLKD
AA_FCLD
AA_FSID
12
13
14
15

TH-42PHD6/TH-42PHW6
SC-BOARD (2 of 2) Schematic Diagram

14.51. SU-Board Block Diagram

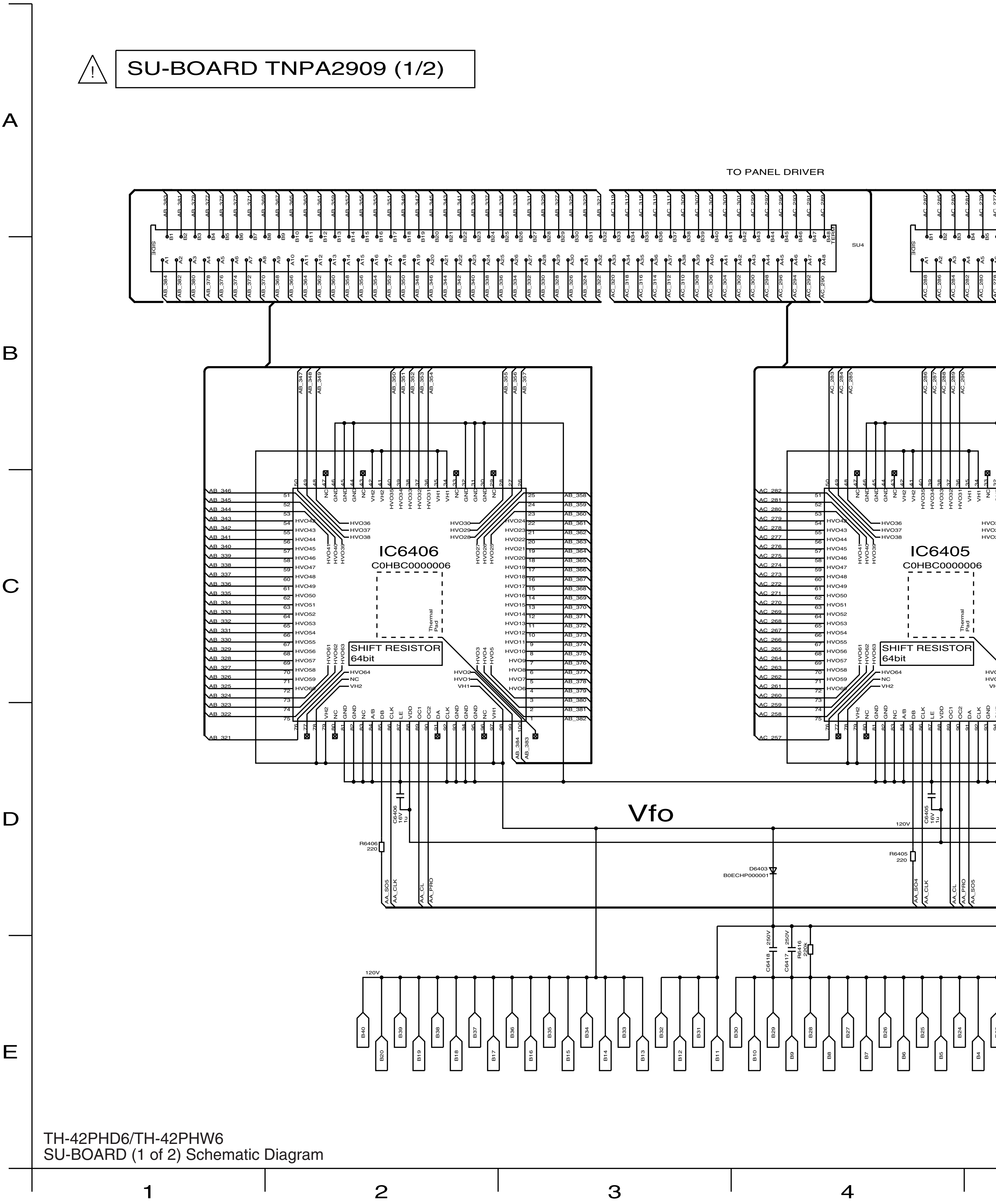

SU
Scan Out (up) Board
TO SC41
SU51
Vf
FSI
FCL
FCLK
PRO
VF5V
Vf
A1 A21
A2 A22
A3 A23
A4 A24
A5 A25
A6 A26
A7 A27
A8 A28
A20 A40
TO SC42
SU52
Vf
VSCN
Vfo
B1 B21
B10 B30
B11 B31
B12 B32
B13 B33
B20 B40
IC6401
PDP SCAN DRIVER
IC6402
PDP SCAN DRIVER
IC6403
PDP SCAN DRIVER
Vf
30 31 32 44 45 46 81 82 83 84 87 92 93 94 95
FSI
FCLK
FCL
PRO
FS01
Vf5
FSO1
FSO2
FSO3
85
86
89
90
91
88
SHIFT RESISTOR
LATCH
SERECTOR
HV64 76
HV63 75
HV62 74
HV03 1
HV02 100
HV01 99
64 PIN
OUTPUT
34 35 41 42 78 79 97 98
Vfo
SU1
A48 B48
A47 B47
A17 B17
A16 B16
A2 B2
A1 B1
To 1st 96pins of
SCAN ELECTROD
SU2
A48 B48
A47 B47
A34 B34
A33 B33
A2 B2
A1 B1
To 2nd 96pins of
SCAN ELECTROD

TH-42PHD6/TH-42PHW6
SU-BOARD Block Diagram

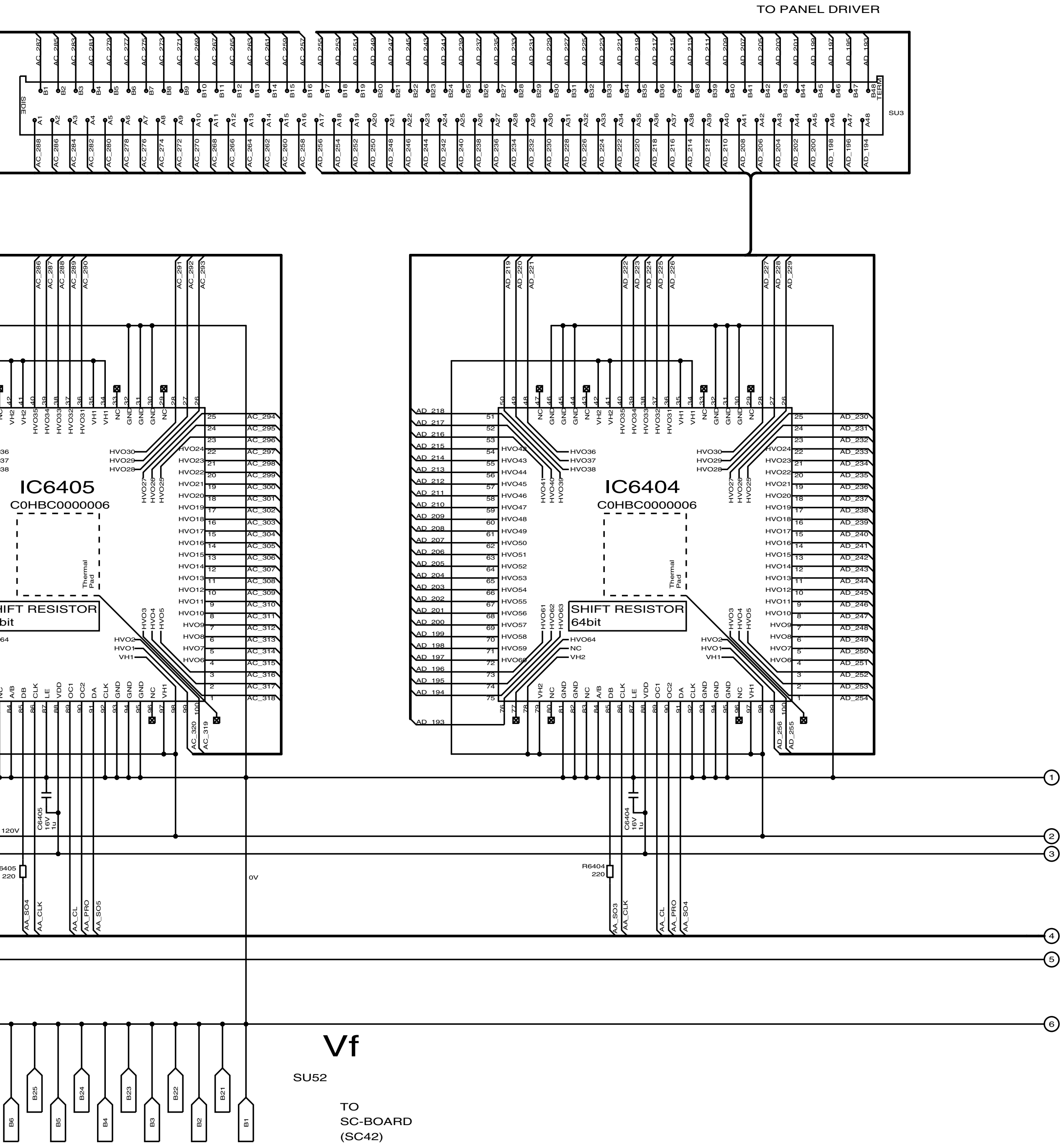

IC6404
PDP SCAN DRIVER
IC6405
PDP SCAN DRIVER
IC6406
PDP SCAN DRIVER
Vf
30 31 32 44 45 46 81 82 83 84 87 92 93 94 95
FSO3
FSO4
FSO5
FCLK
FCL
PRO
Vf5
85
86
89
90
91
88
SHIFT RESISTOR
LATCH
SERECTOR
HV64 76
HV63 75
HV62 74
HV03 1
HV02 100
HV01 99
64 PIN
OUTPUT
34 35 41 42 78 79 97 98
Vfo
SU3
SU4
A48 B48
A47 B47
A17 B17
A16 B16
A34 B34
A33 B33
A2 B2
A1 B1
To 1st 96pins of
SCAN ELECTRODES
To 2nd 96pins of
SCAN ELECTRODES
To 3rd 96pins of
SCAN ELECTRODES
To 4th 96pins of
SCAN ELECTRODES

TH-42PHD6/TH-42PHW6
SU-BOARD Block Diagram

14.52. SU-Board (1 of 2) Schematic Diagram


SU-BOARD TNPA2909 (1/2)
TO PANEL DRIVER
SU4
SIDE
TERM
IC6406
C0HBC0000006
SHIFT RESISTOR
64bit
Thermal Pad
IC6405
C0HBC0000006
SHIFT RESISTOR
64bit
Thermal Pad
Vfo
120V
C6406
16V
1u
R6406
220
C6405
16V
1u
R6405
220
D6403
B0ECHP000001
C6418
250V
C6417
250V
R6416
220k
AA_SO5
AA_CLK
AA_CL
AA_PRO
AA_SO4
AA_CLK
AA_CL
AA_PRO
AA_SO5
A
B
C
D
E
1
2
3
4

TH-42PHD6/TH-42PHW6
SU-BOARD (1 of 2) Schematic Diagram

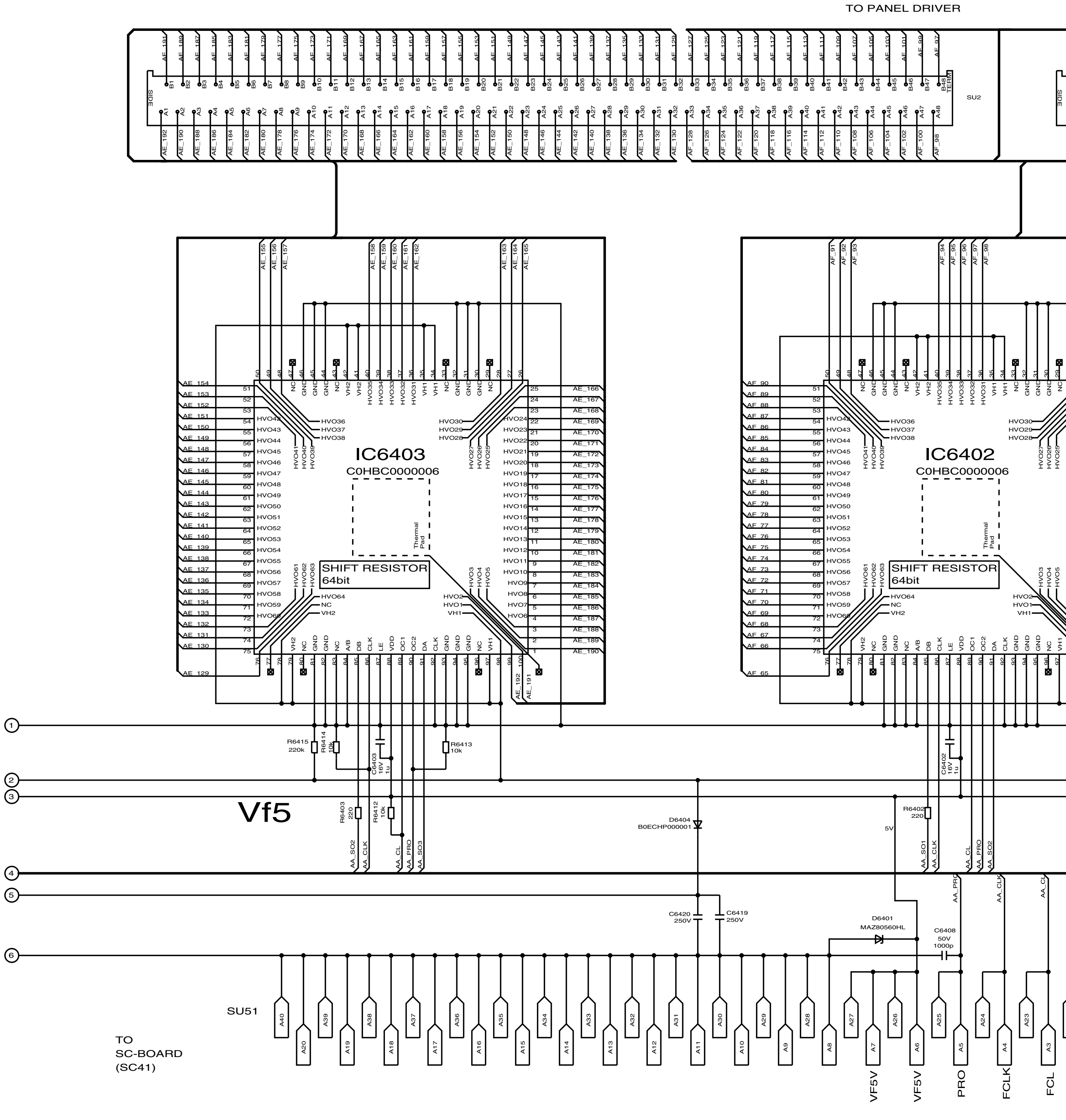

TO PANEL DRIVER
SU3
SIDE
TERM
IC6405
C0HBC0000006
SHIFT RESISTOR
64bit
Thermal Pad
IC6404
C0HBC0000006
SHIFT RESISTOR
64bit
Thermal Pad
C6405
16V
1u
C6404
16V
1u
R6405
220
R6404
220
120V
0V
AA_SO4
AA_CLK
AA_CL
AA_PRO
AA_SO5
AA_SO3
AA_CLK
AA_CL
AA_PRO
AA_SO4
①
②
③
④
⑤
⑥
Vf
SU52
TO
SC-BOARD
(SC42)
B6
B25
B5
B24
B4
B23
B3
B22
B2
B21
B1

TH-42PHD6/TH-42PHW6
SU-BOARD (1 of 2) Schematic Diagram

5 6 7 8

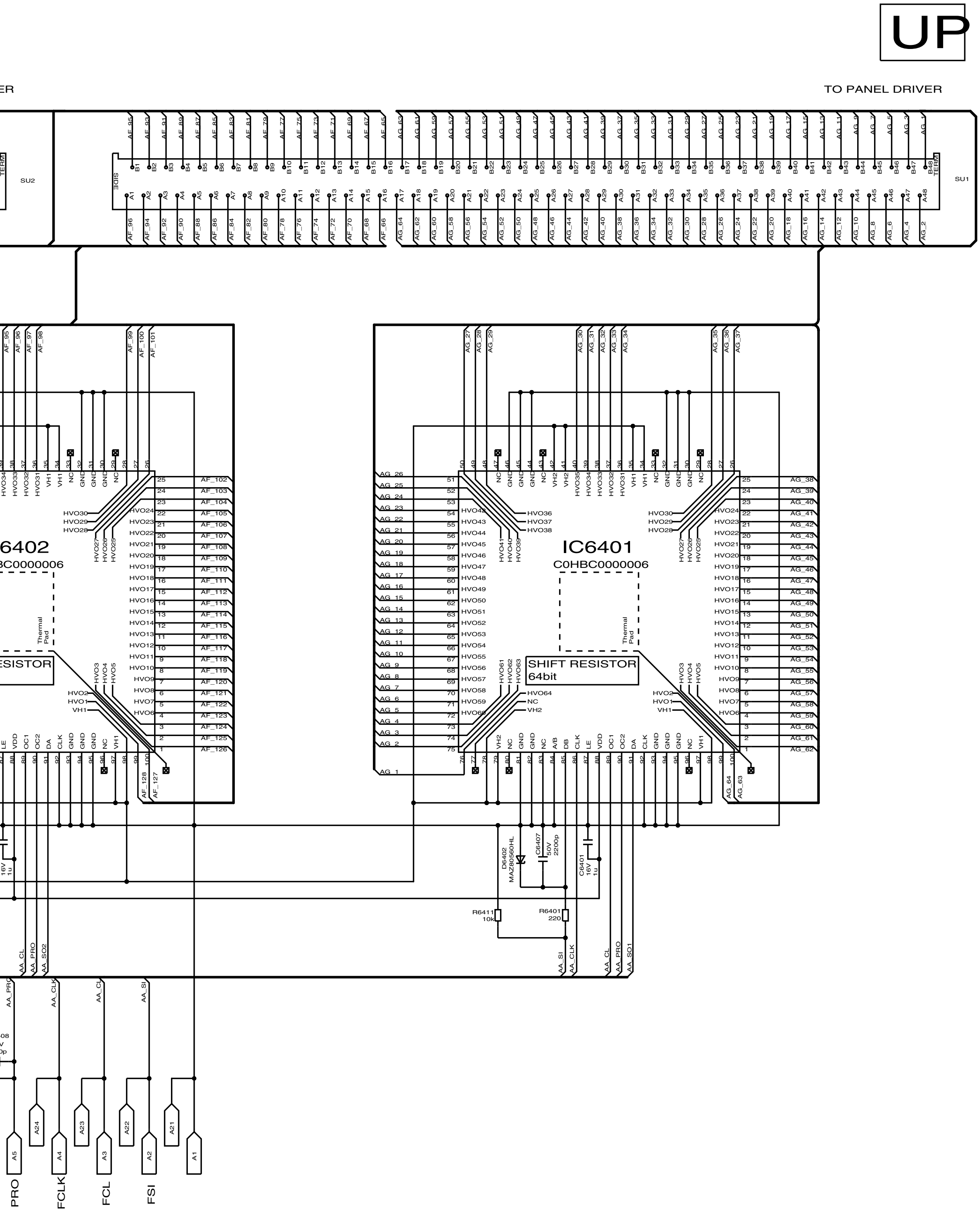
14.53. SU-Board (2 of 2) Schematic Diagram

⚠ SU-BOARD TNPA2909 (2/2)


TO PANEL DRIVER
SU2
SIDE
TERM
IC6403
C0HBC0000006
IC6402
C0HBC0000006
Thermal Pad
SHIFT RESISTOR 64bit
R6415 220k
R6414 10k
C6403 16V 1u
R6413 10k
R6403 220
R6412 10k
C6402 16V 1u
R6402 220
Vf5
5V
D6404 B0ECHP000001
C6420 250V
C6419 250V
D6401 MAZ80560HL
C6408 50V 1000p
AA_SO2
AA_CLK
AA_CL
AA_PRO
AA_SO3
AA_SO1
AA_SO2
SU51
TO SC-BOARD (SC41)
VF5V
VF5V
PRO
FCLK
FCL
1
2
3
4
5
6

TH-42PHD6/TH-42PHW6
SU-BOARD (2 of 2) Schematic Diagram

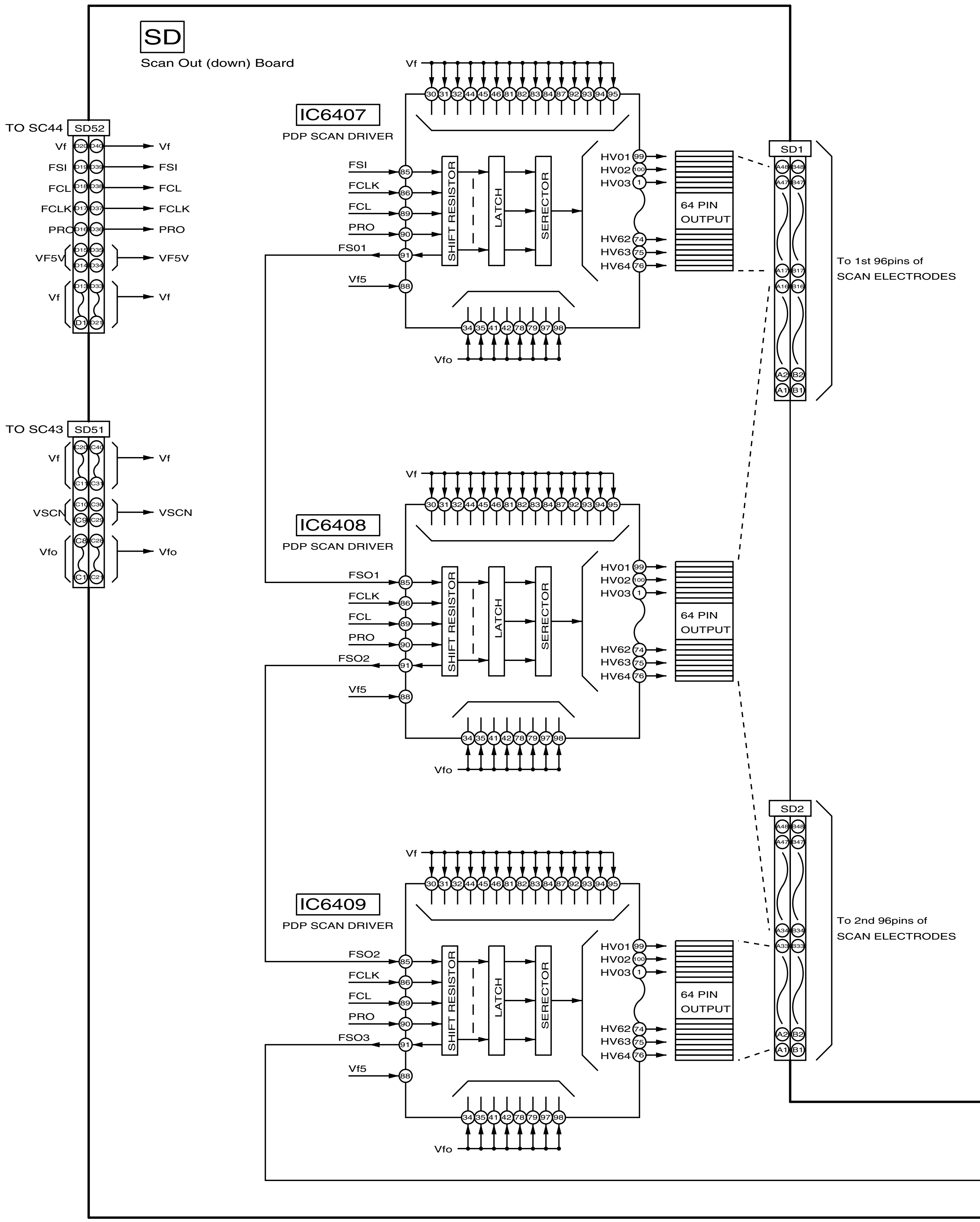
8 9 10 11 12


UP
TO PANEL DRIVER
SU2
SU1
SIDE
TERM
6402
BC0000006
IC6401
C0HBC0000006
Thermal Pad
SHIFT RESISTOR
64bit
ESISTOR
D6402
MAZ80560HL
C6407
50V
2200p
C6401
16V
1u
R6411
10k
R6401
220
AA_SI
AA_CLK
AA_CL
AA_PRO
AA_SO1
AA_SO2
A1
A2
A3
A4
A5
A21
A22
A23
A24
PRO
FCLK
FCL
FSI

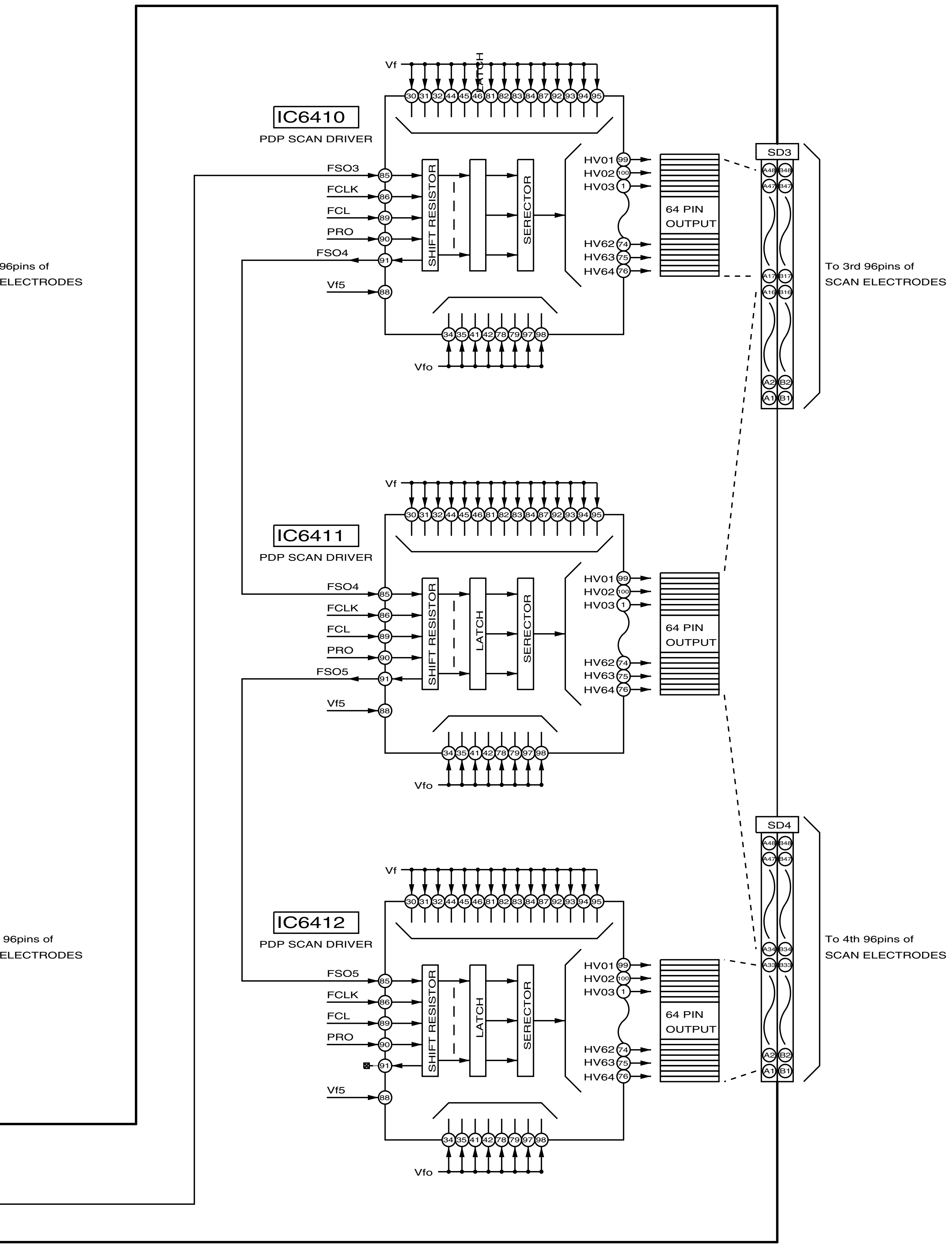
TH-42PHD6/TH-42PHW6
SU-BOARD (2 of 2) Schematic Diagram

12 13 14 15

14.54. SD-Board Block Diagram

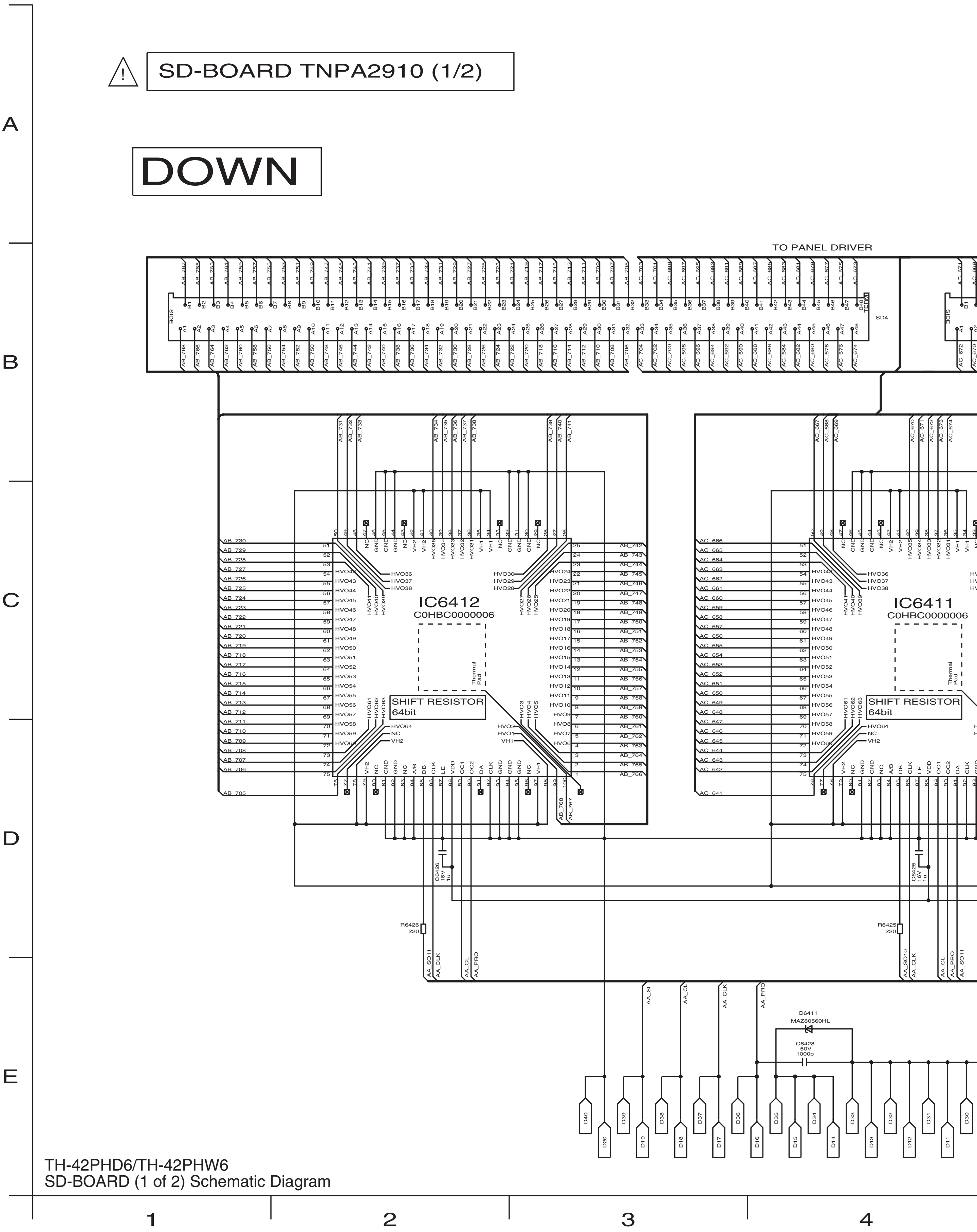

SD
Scan Out (down) Board
TO SC44
SD52
Vf
FSI
FCL
FCLK
PRO
VF5V
TO SC43
SD51
VSCN
Vfo
IC6407
IC6408
IC6409
PDP SCAN DRIVER
FSI
FCLK
FCL
PRO
FS01
FSO1
FSO2
FSO3
Vf5
SHIFT RESISTOR
LATCH
SERECTOR
HV01
HV02
HV03
HV62
HV63
HV64
64 PIN OUTPUT
SD1
SD2
To 1st 96pins of SCAN ELECTRODES
To 2nd 96pins of SCAN ELECTRODES

TH-42PHD6/TH-42PHW6
SD-BOARD Block Diagram

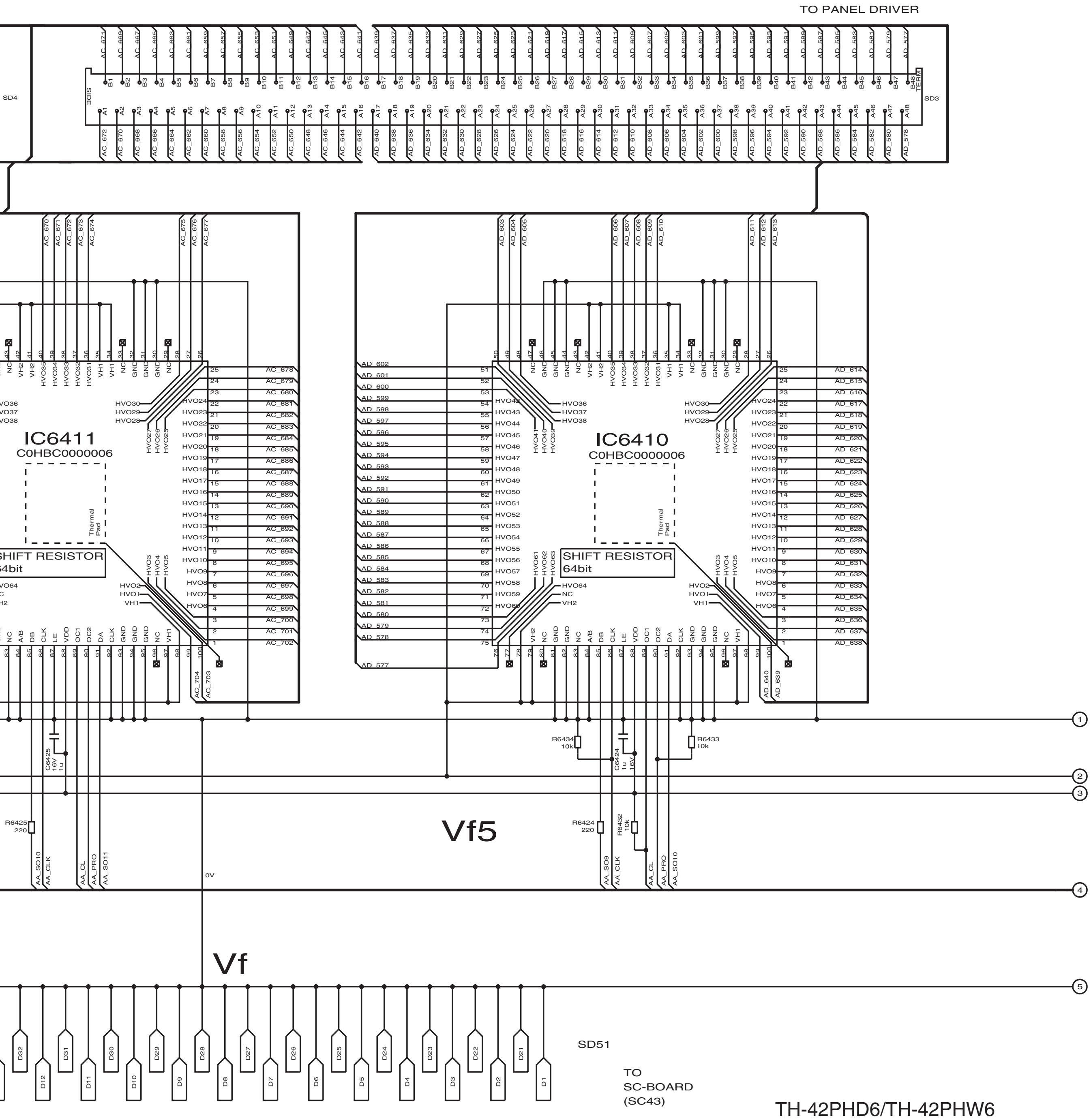

IC6410
PDP SCAN DRIVER
IC6411
PDP SCAN DRIVER
IC6412
PDP SCAN DRIVER
Vf
LATCH
30 31 32 44 45 46 81 82 83 84 87 92 93 94 95
FSO3
FSO4
FSO5
FCLK
FCL
PRO
Vf5
85
86
89
90
91
88
SHIFT RESISTOR
LATCH
SERECTOR
HV01
HV02
HV03
HV62
HV63
HV64
99
100
1
74
75
76
64 PIN
OUTPUT
34 35 41 42 78 79 97 98
Vfo
SD3
SD4
A48 B48
A47 B47
A17 B17
A16 B16
A34 B34
A33 B33
A2 B2
A1 B1
To 3rd 96pins of
SCAN ELECTRODES
To 4th 96pins of
SCAN ELECTRODES
96pins of
ELECTRODES
96pins of
ELECTRODES

TH-42PHD6/TH-42PHW6
SD-BOARD Block Diagram

14.55. SD-Board (1 of 2) Schematic Diagram


SD-BOARD TNPA2910 (1/2)
DOWN
TO PANEL DRIVER
SD4
SIDE
IC6412
C0HBC0000006
IC6411
C0HBC0000006
SHIFT RESISTOR
64bit
Thermal Pad
C6426
16V
1u
C6425
16V
1u
R6426
220
R6425
220
D6411
MAZ80560HL
C6428
50V
1000p
AA_SO11
AA_CLK
AA_CL
AA_PRO
AA_SO10
AA_SI
D40
D20
D39
D19
D38
D18
D37
D17
D36
D16
D35
D15
D34
D14
D33
D13
D32
D12
D31
D11
D30
A
B
C
D
E
1
2
3
4

TH-42PHD6/TH-42PHW6
SD-BOARD (1 of 2) Schematic Diagram

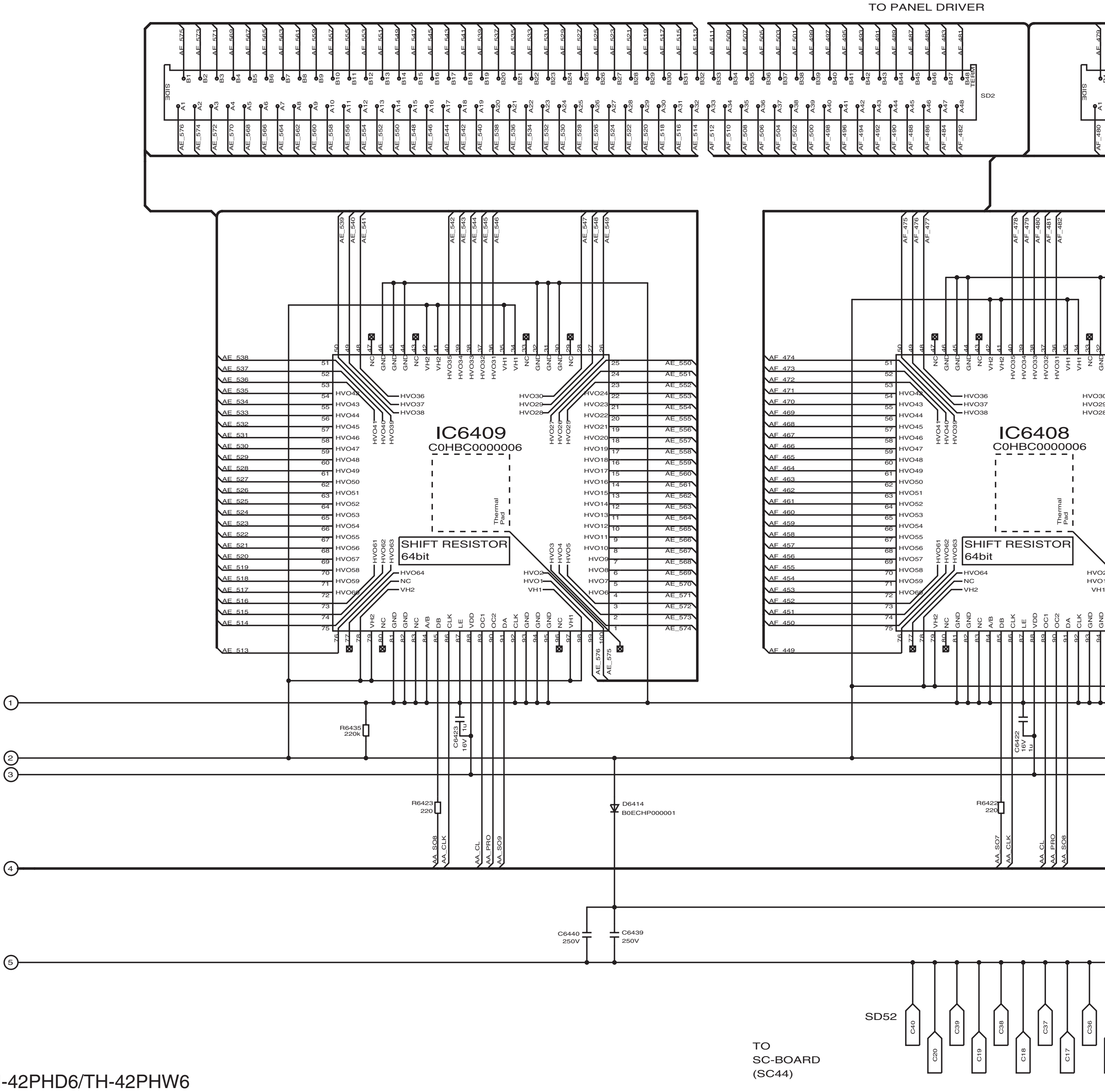

TO PANEL DRIVER
SD4
SD3
IC6411
C0HBC0000006
SHIFT RESISTOR
64bit
IC6410
C0HBC0000006
SHIFT RESISTOR
64bit
Thermal Pad
R6434 10k
R6433 10k
C6424 1u 16V
C6425 16V 1u
R6425 220
R6424 220
R6432 10k
Vf5
0V
AA_SO10
AA_CLK
AA_CL
AA_PRO
AA_SO11
AA_SO9
Vf
SD51
TO
SC-BOARD
(SC43)
1
2
3
4
5

TH-42PHD6/TH-42PHW6
SD-BOARD (1 of 2) Schematic Diagram

5 6 7 8

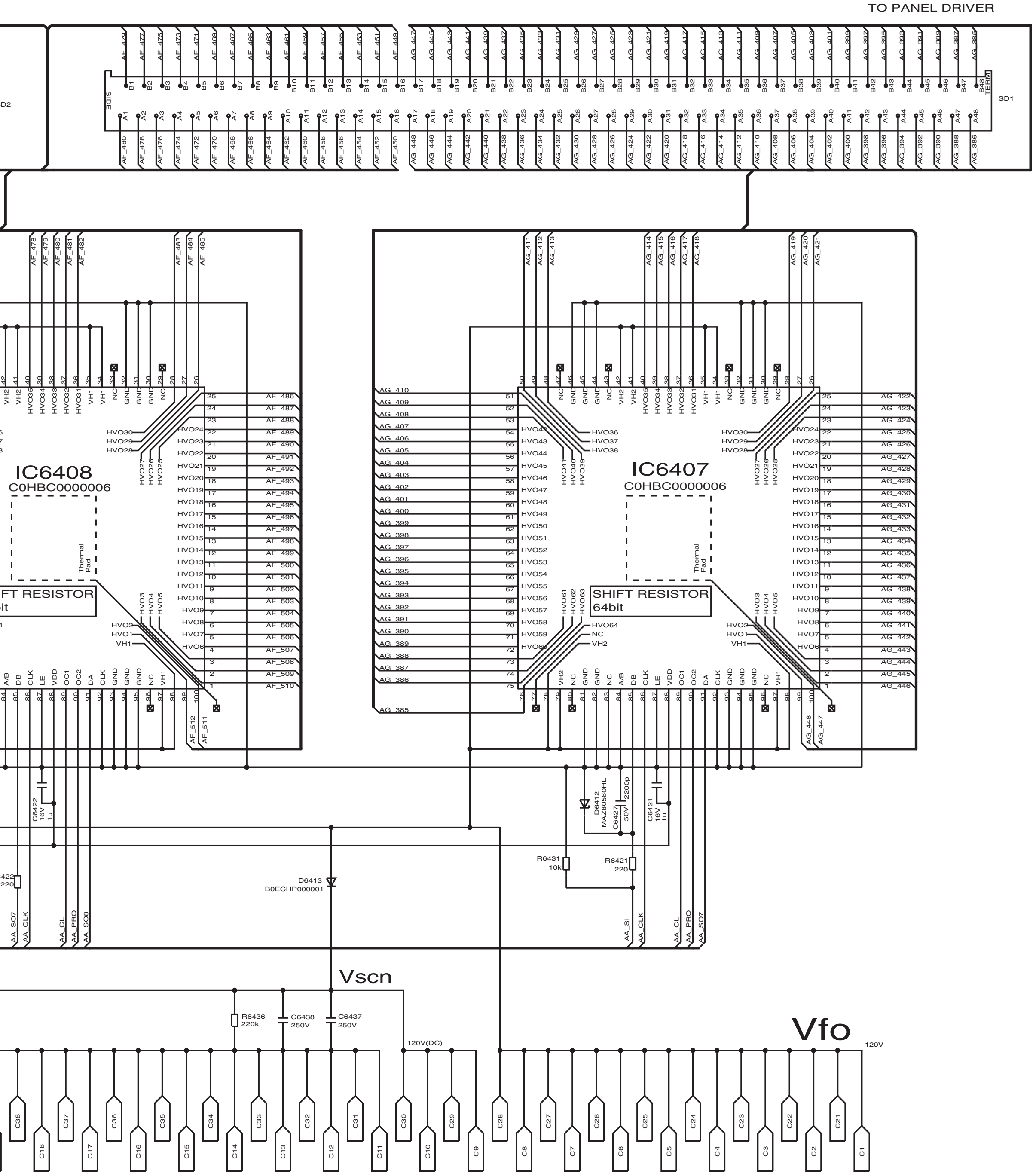
14.56. SD-Board (2 of 2) Schematic Diagram

⚠ SD-BOARD TNPA2910 (2/2)


TO PANEL DRIVER
SD2
IC6409
C0HBC0000006
SHIFT RESISTOR
64bit
Thermal Pad
IC6408
C0HBC0000006
SHIFT RESISTOR
64bit
R6435
220k
C6423
1u
16V
R6423
220
D6414
B0ECHP000001
C6422
1u
16V
R6422
220
AA_SO8
AA_CLK
AA_CL
AA_PRO
AA_SO9
AA_SO7
C6440
250V
C6439
250V
SD52
TO
SC-BOARD
(SC44)
①
②
③
④
⑤

TH-42PHD6/TH-42PHW6
SD-BOARD (2 of 2) Schematic Diagram

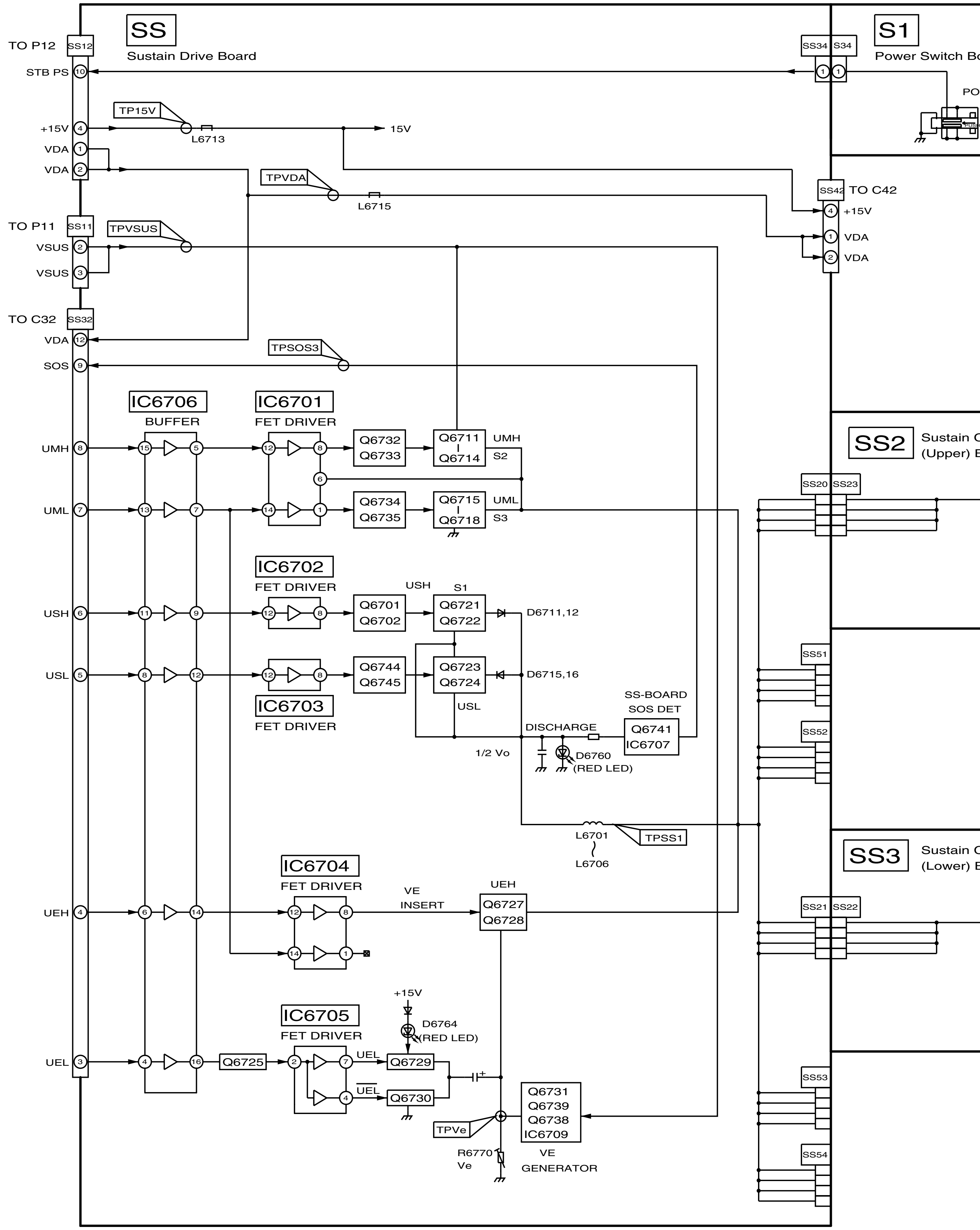
8 9 10 11 12


TO PANEL DRIVER
SD1
IC6408
C0HBC0000006
SHIFT RESISTOR
Thermal Pad
IC6407
C0HBC0000006
SHIFT RESISTOR
64bit
Thermal Pad
C6422
16V
1u
C6421
16V
1u
D6412
MAZ80560HL
C6427
50V
2200p
R6431
10k
R6421
220
D6413
B0ECHP000001
AA_SO7
AA_CLK
AA_CL
AA_PRO
AA_SO8
AA_SI
Vscn
R6436
220k
C6438
250V
C6437
250V
120V(DC)
Vfo
120V

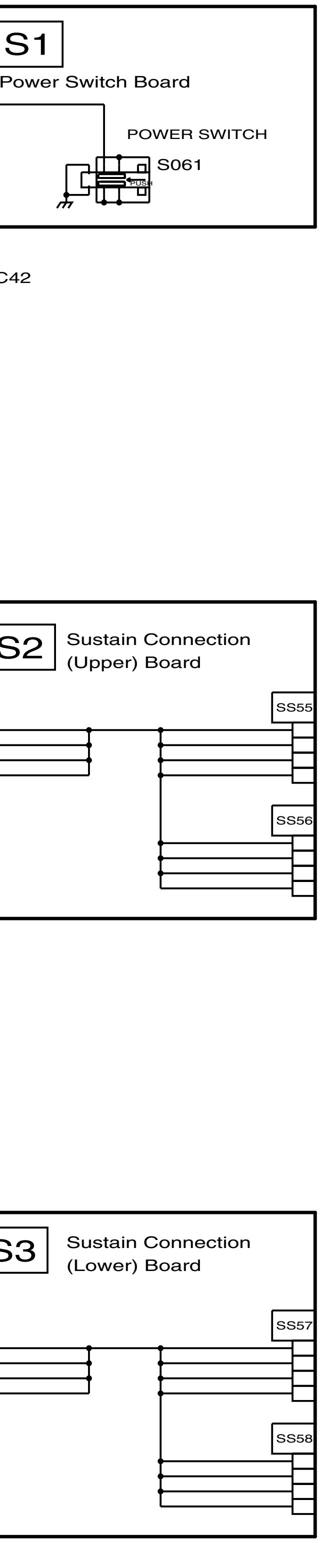
TH-42PHD6/TH-42PHW6 SD-BOARD (2 of 2) Schematic Diagram

12	13	14	15

14.57. S1-Board, SS-Board, SS2-Board and SS3-Board Block Diagram

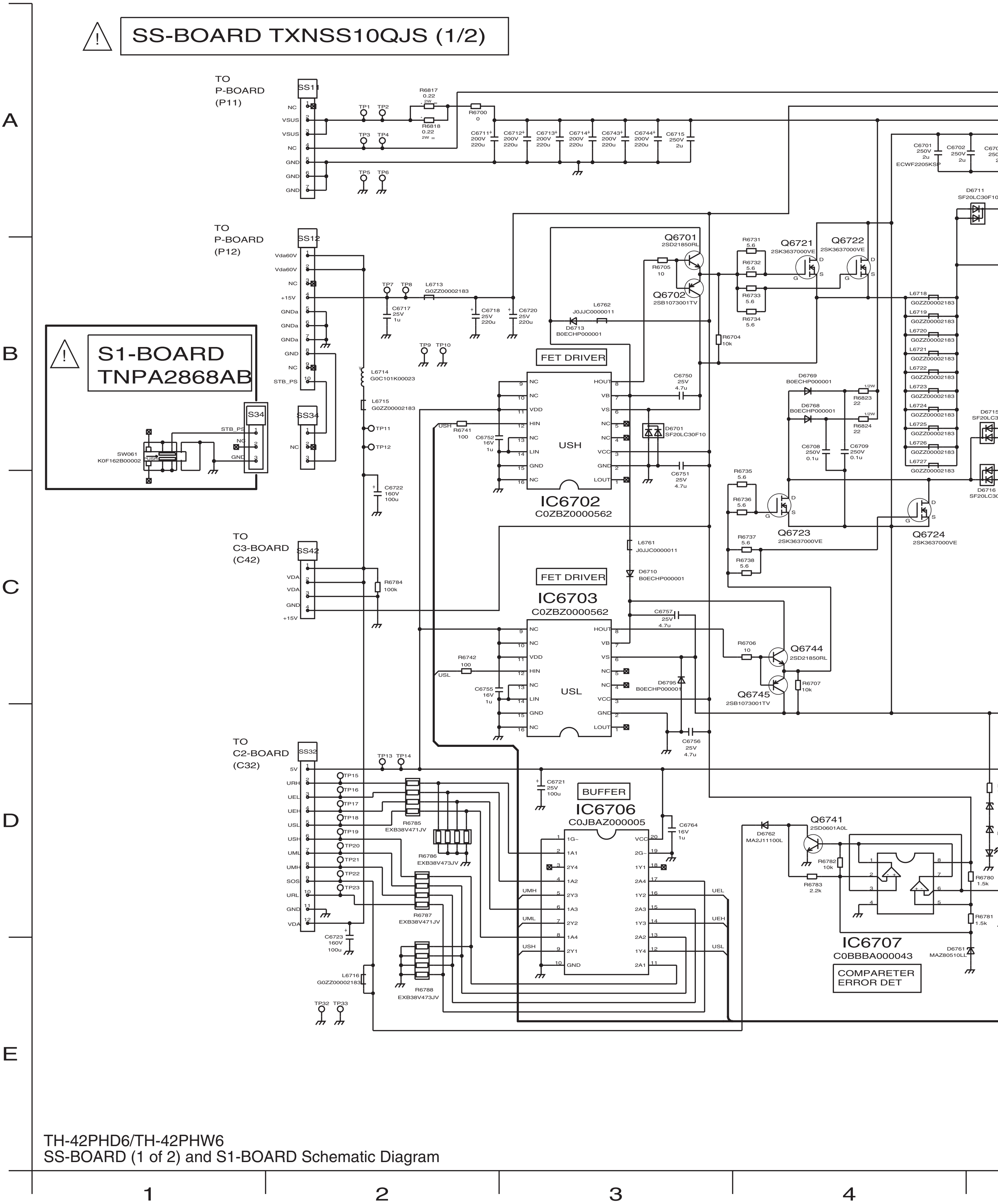

SS
Sustain Drive Board
S1
Power Switch Bo
PO
SS2
Sustain C
(Upper) B
SS3
Sustain C
(Lower) B
TO P12
SS12
STB PS
10
+15V
4
VDA
1
VDA
2
TO P11
SS11
VSUS
2
VSUS
3
TO C32
SS32
VDA
12
SOS
9
UMH
8
UML
7
USH
6
USL
5
UEH
4
UEL
3
TP15V
L6713
15V
TPVDA
L6715
TPVSUS
TPSOS3
SS34
SS34
SS42
TO C42
+15V
VDA
VDA
IC6706
BUFFER
IC6701
FET DRIVER
Q6732
Q6733
Q6711
Q6714
UMH
S2
Q6734
Q6735
Q6715
Q6718
UML
S3
IC6702
FET DRIVER
USH
S1
Q6701
Q6702
Q6721
Q6722
D6711,12
Q6744
Q6745
Q6723
Q6724
D6715,16
USL
IC6703
FET DRIVER
SS-BOARD
SOS DET
DISCHARGE
Q6741
IC6707
1/2 Vo
D6760
(RED LED)
L6701
L6706
TPSS1
IC6704
FET DRIVER
VE
INSERT
UEH
Q6727
Q6728
+15V
D6764
(RED LED)
IC6705
FET DRIVER
Q6725
UEL
Q6729
UEL
Q6730
Q6731
Q6739
Q6738
IC6709
TPVe
R6770
Ve
VE
GENERATOR
SS20
SS23
SS51
SS52
SS21
SS22
SS53
SS54

TH-42PHD6/TH-42PHW6
S1-BOARD, SS-BOARD, SS2-BOARD and SS3-BOARD Block Diagram

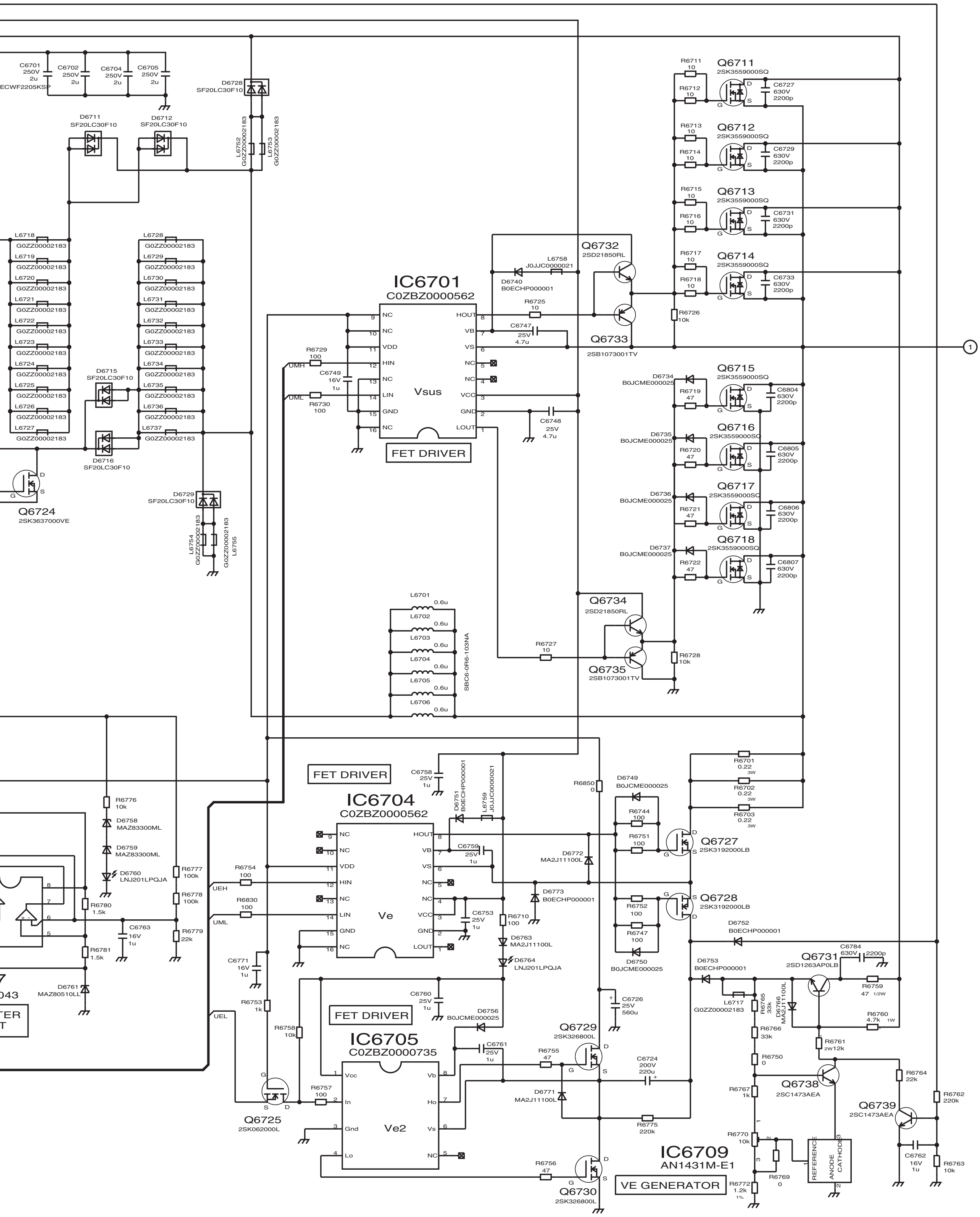

S1
Power Switch Board
POWER SWITCH
S061
PUSH
C42
S2
Sustain Connection (Upper) Board
SS55
SS56
S3
Sustain Connection (Lower) Board
SS57
SS58

TH-42PHD6/TH-42PHW6
S1-BOARD, SS-BOARD, SS2-BOARD and SS3-BOARD Block Diagram

14.58. SS-Board (1 of 2) Schematic Diagram


SS-BOARD TXNSS10QJS (1/2)
S1-BOARD
TNPA2868AB
TO P-BOARD (P11)
SS11
NC
VSUS
VSUS
NC
GND
GND
GND
TP1 TP2 TP3 TP4 TP5 TP6
R6817 0.22 2W
R6818 0.22 2W
R6700 0
C6711 200V 220u
C6712 200V 220u
C6713 200V 220u
C6714 200V 220u
C6743 200V 220u
C6744 200V 220u
C6715 250V 2u
C6701 250V 2u
C6702 250V 2u
ECWF2205KSP
D6711 SF20LC30F10
TO P-BOARD (P12)
SS12
Vda60V
Vda60V
NC
+15V
GNDa
GNDa
GNDa
GND
NC
STB_PS
TP7 TP8
L6713 G0ZZ00002183
C6717 25V 1u
C6718 25V 220u
C6720 25V 220u
L6762 J0JJC0000011
D6713 B0ECHP000001
TP9 TP10
L6714 G0C101K00023
L6715 G0ZZ00002183
TP11
TP12
C6722 160V 100u
Q6701 2SD21850RL
Q6702 2SB1073001TV
R6705 10
R6704 10k
R6731 5.6
R6732 5.6
R6733 5.6
R6734 5.6
Q6721 2SK3637000VE
Q6722 2SK3637000VE
L6718 L6719 L6720 L6721 L6722 L6723 L6724 L6725 L6726 L6727 G0ZZ00002183
D6715 SF20LC3
D6716 SF20LC3
FET DRIVER
IC6702
C0ZBZ0000562
USH
NC NC VDD HIN NC LIN GND NC
HOUT VB VS NC NC VCC GND LOUT
R6741 100
C6752 16V 1u
C6750 25V 4.7u
C6751 25V 4.7u
D6701 SF20LC30F10
D6769 B0ECHP000001
D6768 B0ECHP000001
R6823 22 1/2W
R6824 22 1/2W
C6708 250V 0.1u
C6709 250V 0.1u
R6735 5.6
R6736 5.6
R6737 5.6
R6738 5.6
Q6723 2SK3637000VE
Q6724 2SK3637000VE
SS34
S34
STB_PS
NC
GND
SW061 K0F162B00002
PUSH
TO C3-BOARD (C42)
SS42
VDA
VDA
GND
+15V
R6784 100k
L6761 J0JJC0000011
D6710 B0ECHP000001
FET DRIVER
IC6703
C0ZBZ0000562
USL
R6742 100
C6755 16V 1u
C6757 25V 4.7u
C6756 25V 4.7u
D6795 B0ECHP000001
R6706 10
R6707 10k
Q6744 2SD21850RL
Q6745 2SB1073001TV
TO C2-BOARD (C32)
SS32
5V URH UEL UEH USL USH UML UMH SOS URL GND VDA
TP13 TP14
TP15 TP16 TP17 TP18 TP19 TP20 TP21 TP22 TP23
R6785 EXB38V471JV
R6786 EXB38V473JV
R6787 EXB38V471JV
R6788 EXB38V473JV
C6723 160V 100u
L6716 G0ZZ00002183
TP32 TP33
C6721 25V 100u
BUFFER
IC6706
C0JBAZ000005
1G- 1A1 2Y4 1A2 2Y3 1A3 2Y2 1A4 2Y1 GND
VCC 2G- 1Y1 2A4 1Y2 2A3 1Y3 2A2 1Y4 2A1
C6764 16V 1u
UMH UML USH
UEL UEH USL
D6762 MA2J11100L
Q6741 2SD0601A0L
R6782 10k
R6783 2.2k
R6780 1.5k
R6781 1.5k
IC6707
C0BBBA000043
COMPARETER ERROR DET
D6761 MAZ80510LL
A B C D E
1 2 3 4

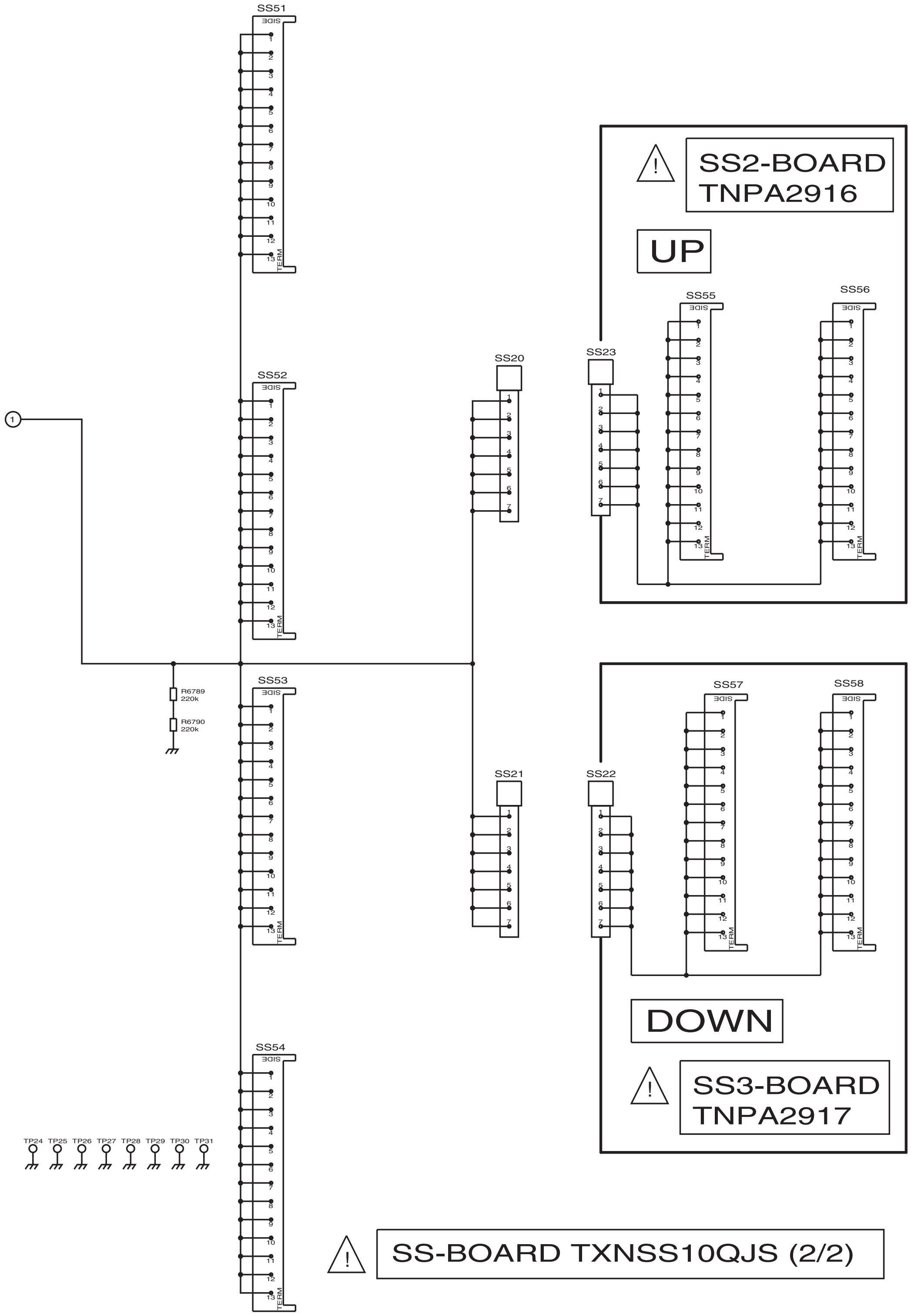
TH-42PHD6/TH-42PHW6
SS-BOARD (1 of 2) and S1-BOARD Schematic Diagram


C6701 250V 2u ECWF2205KSP
C6702 250V 2u
C6704 250V 2u
C6705 250V 2u
D6728 SF20LC30F10
D6711 SF20LC30F10
D6712 SF20LC30F10
L6752 G0ZZ00002183
L6753 G0ZZ00002183
L6718 … L6727 G0ZZ00002183
L6728 … L6737 G0ZZ00002183
D6715 SF20LC30F10
D6716 SF20LC30F10
D6729 SF20LC30F10
L6754 G0ZZ00002183
L6755 G0ZZ00002183
Q6724 2SK3637000VE
IC6701 C0ZBZ0000562
Vsus
FET DRIVER
NC HOUT NC VB VDD VS HIN NC NC NC LIN VCC GND GND NC LOUT
R6729 100
R6730 100
C6749 16V 1u
UMH
UML
C6747 25V 4.7u
C6748 25V 4.7u
D6740 B0ECHP000001
L6758 J0JJC0000021
R6725 10
Q6732 2SD21850RL
Q6733 2SB1073001TV
R6711 10
R6712 10
Q6711 2SK3559000SQ
C6727 630V 2200p
R6713 10
R6714 10
Q6712 2SK3559000SQ
C6729 630V 2200p
R6715 10
R6716 10
Q6713 2SK3559000SQ
C6731 630V 2200p
R6717 10
R6718 10
Q6714 2SK3559000SQ
C6733 630V 2200p
R6726 10k
①
D6734 B0JCME000025
R6719 47
Q6715 2SK3559000SQ
C6804 630V 2200p
D6735 B0JCME000025
R6720 47
Q6716 2SK3559000SQ
C6805 630V 2200p
D6736 B0JCME000025
R6721 47
Q6717 2SK3559000SQ
C6806 630V 2200p
D6737 B0JCME000025
R6722 47
Q6718 2SK3559000SQ
C6807 630V 2200p
L6701 0.6u
L6702 0.6u
L6703 0.6u
L6704 0.6u
L6705 0.6u
L6706 0.6u
SBC6-0R6-103NA
Q6734 2SD21850RL
R6727 10
Q6735 2SB1073001TV
R6728 10k
FET DRIVER
IC6704 C0ZBZ0000562
Ve
C6758 25V 1u
D6751 B0ECHP000001
L6759 J0JJC0000021
C6759 25V 1u
C6753 25V 1u
R6710 100
D6772 MA2J11100L
D6773 B0ECHP000001
D6763 MA2J11100L
D6764 LNJ201LPQJA
R6754 100
R6830 100
UEH
UML
C6771 16V 1u
R6776 10k
D6758 MAZ83300ML
D6759 MAZ83300ML
D6760 LNJ201LPQJA
R6777 100k
R6778 100k
R6779 22k
R6780 1.5k
R6781 1.5k
C6763 16V 1u
D6761 MAZ80510LL
043
TER
T
R6850 0
D6749 B0JCME000025
R6744 100
R6751 100
Q6727 2SK3192000LB
Q6728 2SK3192000LB
R6752 100
R6747 100
D6750 B0JCME000025
R6701 0.22 3W
R6702 0.22 3W
R6703 0.22 3W
D6752 B0ECHP000001
D6753 B0ECHP000001
L6717 G0ZZ00002183
Q6731 2SD1263AP0LB
C6784 630V 2200p
R6759 47 1/2W
R6760 4.7k 1W
R6765 33k
D6766 MA2J11100L
R6766 33k
R6761 2W12k
R6750 0
R6767 1k
Q6738 2SC1473AEA
R6764 22k
Q6739 2SC1473AEA
R6762 220k
R6770 10k
R6769 0
R6772 1.2k 1%
C6762 16V 1u
R6763 10k
IC6709 AN1431M-E1
REFERENCE ANODE CATHODE
VE GENERATOR
C6726 25V 560u
C6724 200V 220u
R6775 220k
FET DRIVER
IC6705 C0ZBZ0000735
Ve2
Vcc Vb In Ho Gnd Vs Lo NC
C6760 25V 1u
D6756 B0JCME000025
C6761 25V 1u
R6753 1k
R6758 10k
UEL
R6757 100
Q6725 2SK062000L
R6755 47
Q6729 2SK326800L
D6771 MA2J11100L
R6756 47
Q6730 2SK326800L

TH-42PHD6/TH-42PHW6 SS-BOARD (1 of 2) and S1-BOARD Schematic Diagram

5
6
7
8

14.59. SS-Board (2 of 2) Schematic Diagram

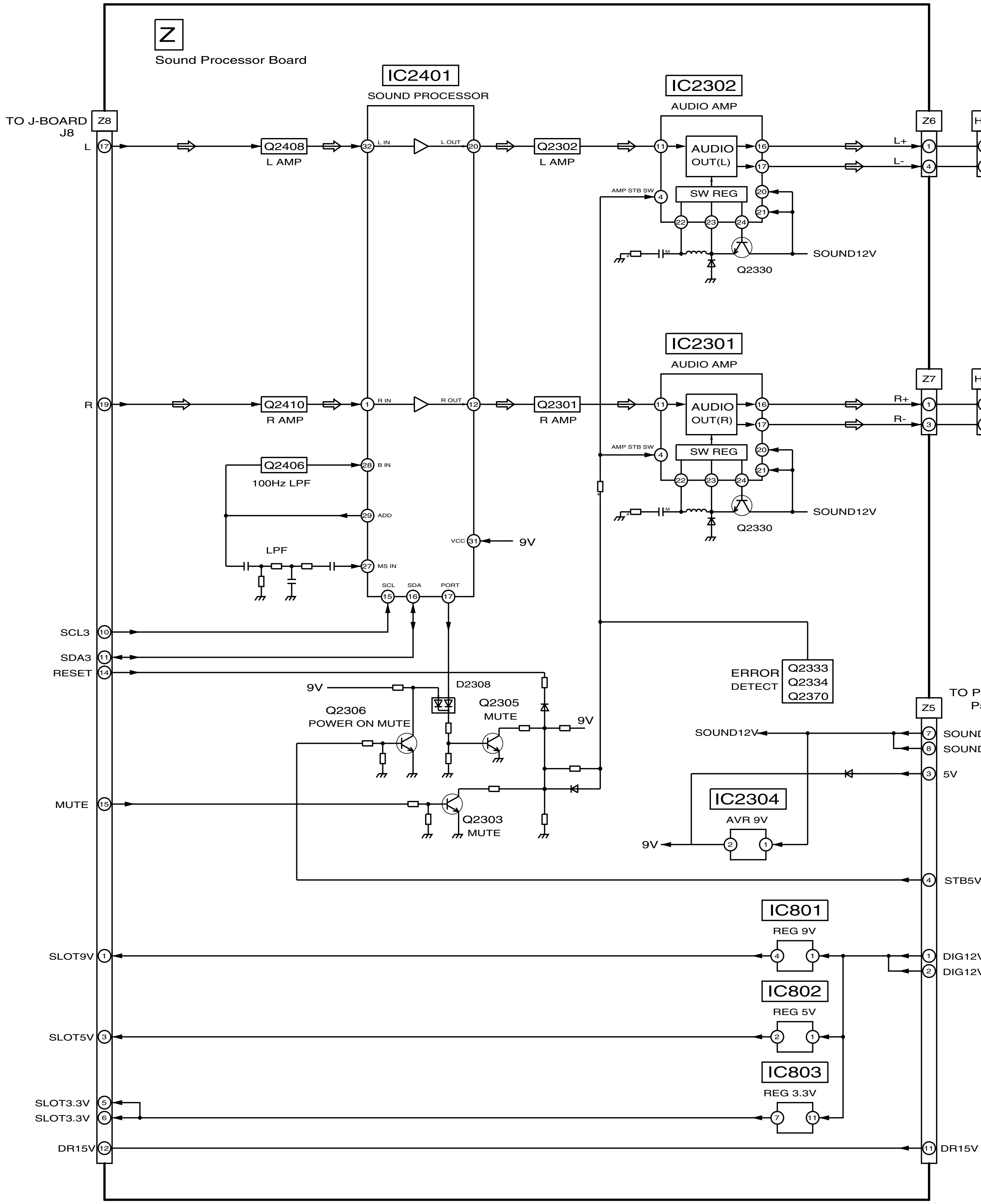

SS51
SS52
SS53
SS54
SS20
SS21
SS22
SS23
SS55
SS56
SS57
SS58
SIDE
TERM
R6789
220k
R6790
220k
TP24
TP25
TP26
TP27
TP28
TP29
TP30
TP31
1
SS2-BOARD
TNPA2916
UP
DOWN
SS3-BOARD
TNPA2917
SS-BOARD TXNSS10QJS (2/2)

TH-42PHD6/TH-42PHW6
SS-BOARD (2 of 2), SS2-BOARD, and SS3-BOARD Schematic Diagram

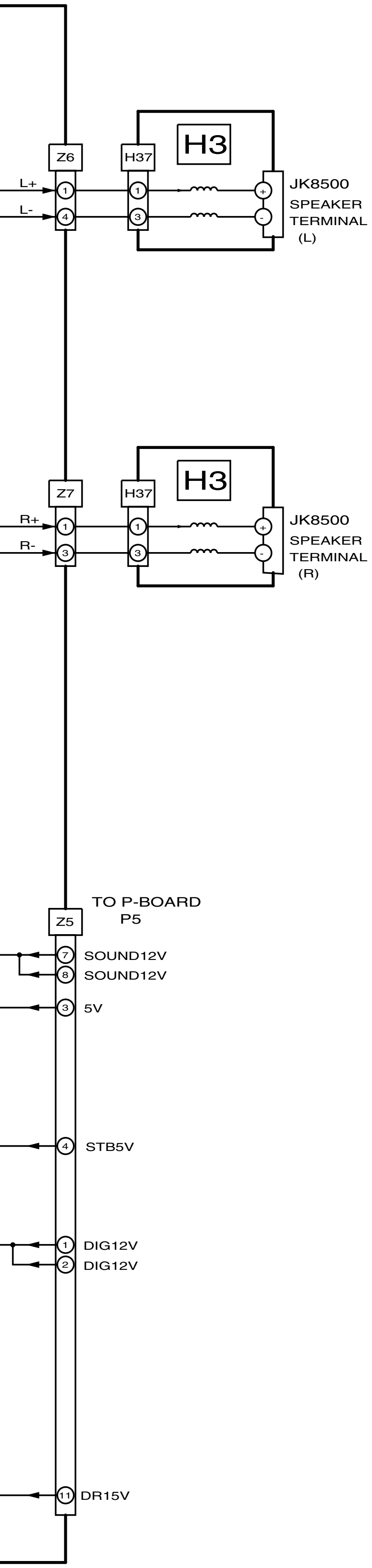
TH-42PHD6/TH-42PHW6
SS-BOARD (2 of 2), SS2-BOARD, and SS3-BOARD Schematic Diagram

12 13 14 15

14.60. Z-Board and H3-Board Block Diagram


Z
Sound Processor Board
TO J-BOARD J8
Z8
L
R
SCL3
SDA3
RESET
MUTE
SLOT9V
SLOT5V
SLOT3.3V
SLOT3.3V
DR15V
Q2408
L AMP
Q2410
R AMP
Q2406
100Hz LPF
LPF
IC2401
SOUND PROCESSOR
L IN
L OUT
R IN
R OUT
B IN
ADD
MS IN
VCC
SCL
SDA
PORT
9V
Q2302
L AMP
Q2301
R AMP
IC2302
AUDIO AMP
IC2301
AUDIO AMP
AUDIO OUT(L)
AUDIO OUT(R)
SW REG
AMP STB SW
SOUND12V
Q2330
L+
L-
R+
R-
Z6
Z7
Z5
ERROR DETECT
Q2333
Q2334
Q2370
D2308
Q2306
POWER ON MUTE
Q2305
MUTE
Q2303
MUTE
IC2304
AVR 9V
IC801
REG 9V
IC802
REG 5V
IC803
REG 3.3V
SOUND12V
5V
STB5V
DIG12V
DIG12V
DR15V

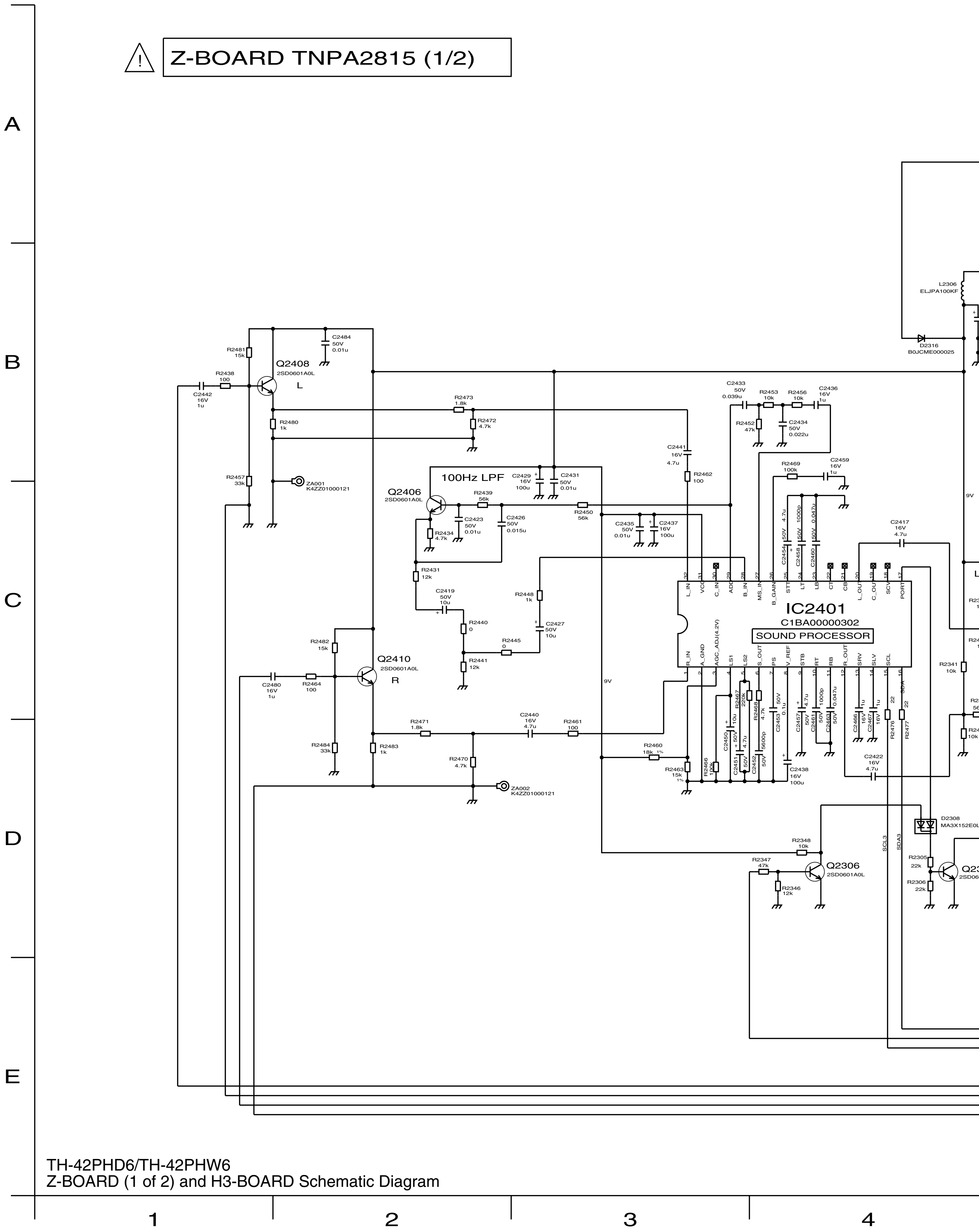
TH-42PHD6/TH-42PHW6
Z-BOARD and H3-BOARD Block Diagram



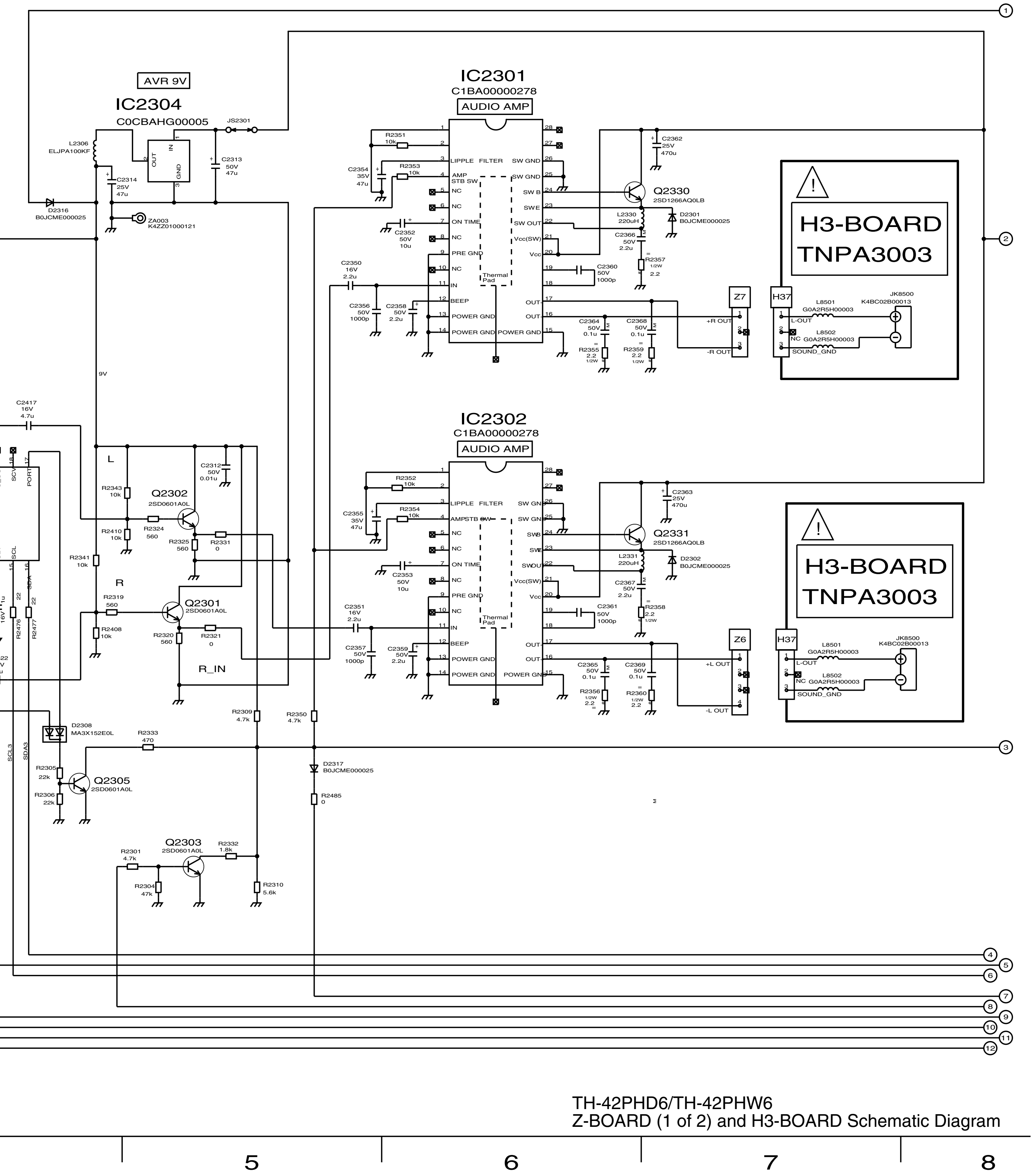
Z6
H37
H3
L+
L-
1
4
1
3
+
-
JK8500
SPEAKER
TERMINAL
(L)
Z7
H37
H3
R+
R-
1
3
1
3
+
-
JK8500
SPEAKER
TERMINAL
(R)
TO P-BOARD
P5
Z5
7 SOUND12V
8 SOUND12V
3 5V
4 STB5V
1 DIG12V
2 DIG12V
11 DR15V

TH-42PHD6/TH-42PHW6
Z-BOARD and H3-BOARD Block Diagram

14.61. Z-Board (1 of 2) Schematic Diagram

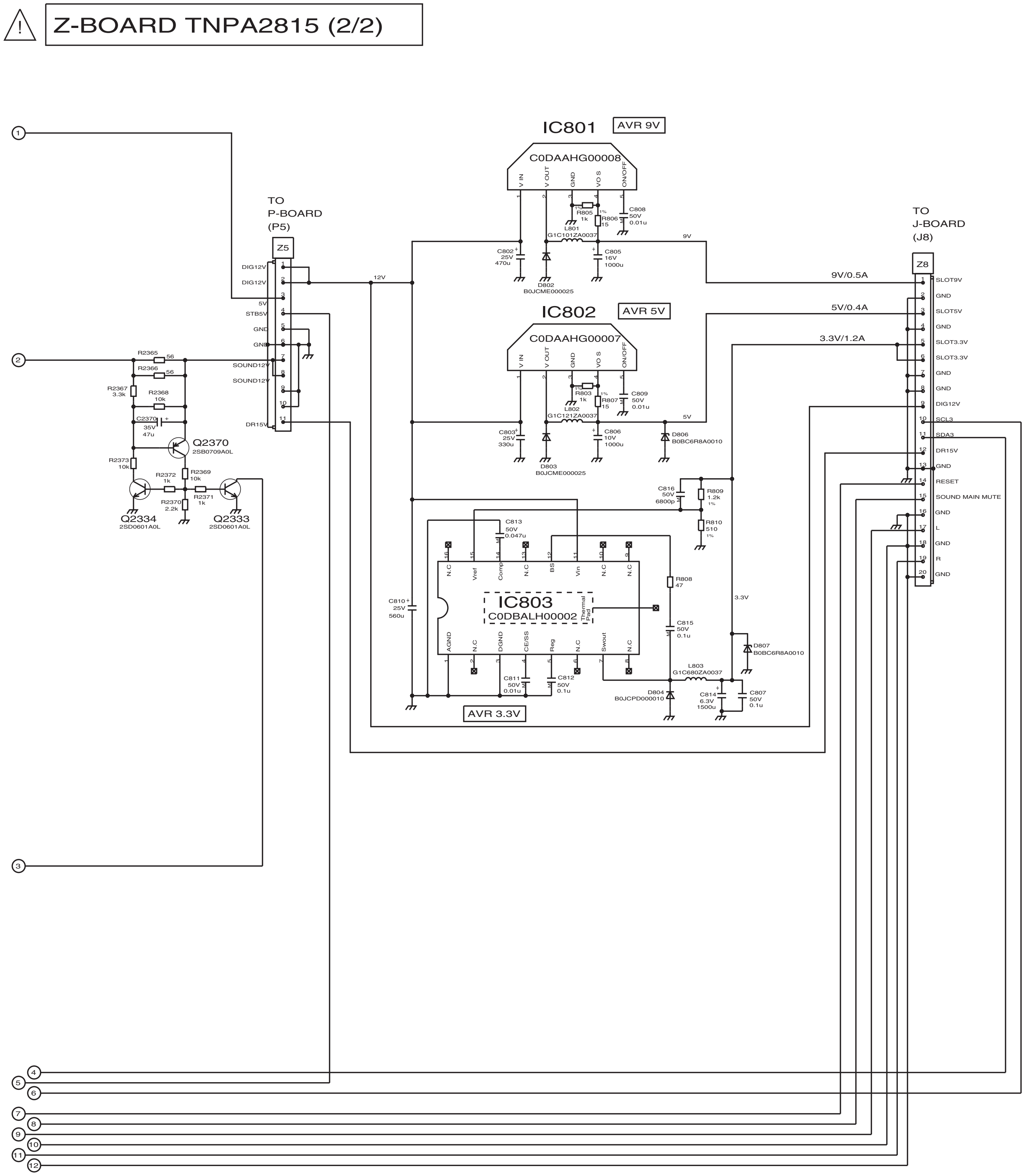

Z-BOARD TNPA2815 (1/2)
A
B
C
D
E
1
2
3
4
Q2408
2SD0601A0L
L
Q2406
2SD0601A0L
100Hz LPF
Q2410
2SD0601A0L
R
IC2401
C1BA00000302
SOUND PROCESSOR
Q2306
2SD0601A0L
D2316
B0JCME000025
L2306
ELJPA100KF
D2308
MA3X152E0L
ZA001
K4ZZ01000121
ZA002
K4ZZ01000121
R2481 15k
R2438 100
C2442 16V 1u
C2484 50V 0.01u
R2480 1k
R2473 1.8k
R2472 4.7k
R2457 33k
C2429 16V 100u
C2431 50V 0.01u
R2439 56k
C2423 50V 0.01u
C2426 50V 0.015u
R2434 4.7k
R2450 56k
C2435 50V 0.01u
C2437 16V 100u
C2441 16V 4.7u
R2462 100
C2433 50V 0.039u
R2453 10k
R2456 10k
C2436 16V 1u
R2452 47k
C2434 50V 0.022u
R2469 100k
C2459 16V 1u
R2431 12k
C2419 50V 10u
R2440 0
R2448 1k
C2427 50V 10u
R2445 0
R2441 12k
R2482 15k
C2480 16V 1u
R2464 100
R2484 33k
R2483 1k
R2471 1.8k
R2470 4.7k
C2440 16V 4.7u
R2461 100
R2460 18k 1%
R2463 15k 1%
R2466 10k
R2467 220k
R2468 4.7k
C2450 10u 50V
C2451 4.7u 50V
C2452 5600p 50V
C2453 50V 0.1u
C2438 16V 100u
C2457 4.7u
C2461 1000p 50V
C2463 0.047u 50V
C2466 16V 1u
C2467 16V 1u
R2476 22
R2477 22
C2422 16V 4.7u
C2417 16V 4.7u
C2454 50V 4.7u
C2458 50V 1000p
C2460 50V 0.047u
R2341 10k
R2348 10k
R2347 47k
R2346 12k
R2305 22k
R2306 22k
9V
SCL3
SDA3
L_IN
VCC
C_IN
ADC
B_IN
MS_IN
B_GAIN
STT
LT
LB
CT
CB
L_OUT
C_OUT
SCV
PORT
R_IN
A_GND
AGC_ADJ(4.2V)
LS1
LS2
S_OUT
PS
V_REF
STB
RT
RB
R_OUT
SRV
SLV
SCL
SDA

TH-42PHD6/TH-42PHW6
Z-BOARD (1 of 2) and H3-BOARD Schematic Diagram


AVR 9V
IC2304
C0CBAHG00005
JS2301
L2306
ELJPA100KF
C2313
50V
47u
C2314
25V
47u
D2316
B0JCME000025
ZA003
K4ZZ01000121
IC2301
C1BA00000278
AUDIO AMP
R2351
10k
R2353
10k
C2354
35V
47u
LIPPLE FILTER
AMP STB SW
NC
ON TIME
PRE GND
IN
BEEP
POWER GND
SW GND
SW B
SWE
SW OUT
Vcc(SW)
Vcc
OUT
Thermal Pad
C2352
50V
10u
C2350
16V
2.2u
C2356
50V
1000p
C2358
50V
2.2u
C2360
50V
1000p
C2362
25V
470u
Q2330
2SD1266AQ0LB
L2330
220uH
D2301
B0JCME000025
C2366
50V
2.2u
R2357
1/2W
2.2
C2364
50V
0.1u
C2368
50V
0.1u
R2355
2.2
1/2W
R2359
2.2
1/2W
Z7
+R OUT
-R OUT
H37
L-OUT
NC
SOUND_GND
L8501
G0A2R5H00003
L8502
G0A2R5H00003
JK8500
K4BC02B00013
H3-BOARD
TNPA3003
9V
C2417
16V
4.7u
L
R
R_IN
C2312
50V
0.01u
Q2302
2SD0601A0L
R2343
10k
R2410
10k
R2324
560
R2325
560
R2331
0
R2341
10k
R2319
560
R2408
10k
Q2301
2SD0601A0L
R2320
560
R2321
0
IC2302
C1BA00000278
AUDIO AMP
R2352
10k
R2354
10k
C2355
35V
47u
C2353
50V
10u
C2351
16V
2.2u
C2357
50V
1000p
C2359
50V
2.2u
C2361
50V
1000p
C2363
25V
470u
Q2331
2SD1266AQ0LB
L2331
220uH
D2302
B0JCME000025
C2367
50V
2.2u
R2358
2.2
1/2W
C2365
50V
0.1u
C2369
50V
0.1u
R2356
1/2W
2.2
R2360
1/2W
2.2
Z6
+L OUT
-L OUT
JK8500
K4BC02B00013
SCV
PORT
SCL
SDA
R2476
R2477
22
SCL3
SDA3
D2308
MA3X152E0L
R2333
470
R2305
22k
R2306
22k
Q2305
2SD0601A0L
R2309
4.7k
R2350
4.7k
D2317
B0JCME000025
R2485
0
Q2303
2SD0601A0L
R2301
4.7k
R2304
47k
R2332
1.8k
R2310
5.6k
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
5
6
7
8

TH-42PHD6/TH-42PHW6
Z-BOARD (1 of 2) and H3-BOARD Schematic Diagram

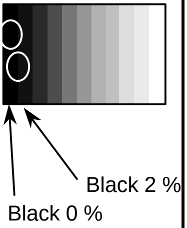
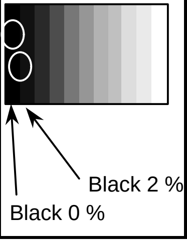
14.62. Z-Board (2 of 2) Schematic Diagram

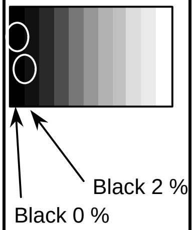
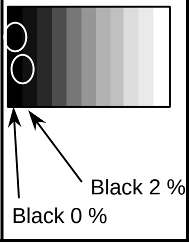

Z-BOARD TNPA2815 (2/2)
IC801
AVR 9V
C0DAAHG00008
V IN
V OUT
GND
VO S
ON/OFF
R805 1k
R806 15
C808 50V 0.01u
L801 G1C101ZA0037
C802 25V 470u
D802 B0JCME000025
C805 16V 1000u
9V
IC802
AVR 5V
C0DAAHG00007
R803 1k
R807 15
C809 50V 0.01u
L802 G1C121ZA0037
C803 25V 330u
D803 B0JCME000025
C806 10V 1000u
D806 B0BC6R8A0010
5V
12V
TO P-BOARD (P5)
Z5
DIG12V
DIG12V
5V
STB5V
GND
GND
SOUND12V
SOUND12V
DR15V
R2365 56
R2366 56
R2367 3.3k
R2368 10k
C2370 35V 47u
Q2370 2SB0709A0L
R2373 10k
R2372 1k
R2369 10k
R2371 1k
R2370 2.2k
Q2334 2SD0601A0L
Q2333 2SD0601A0L
TO J-BOARD (J8)
Z8
9V/0.5A
5V/0.4A
3.3V/1.2A
SLOT9V
GND
SLOT5V
GND
SLOT3.3V
SLOT3.3V
GND
GND
DIG12V
SCL3
SDA3
DR15V
GND
RESET
SOUND MAIN MUTE
GND
L
GND
R
GND
C816 50V 6800p
R809 1.2k
R810 510
C813 50V 0.047u
R808 47
IC803
C0DBALH00002
N.C
Vref
Comp
N.C
BS
Vin
N.C
N.C
Thermal Pad
AGND
N.C
DGND
CE/SS
Reg
N.C
Swout
N.C
C810 25V 560u
C811 50V 0.01u
C812 50V 0.1u
C815 50V 0.1u
3.3V
D807 B0BC6R8A0010
L803 G1C680ZA0037
D804 B0JCPD000010
C814 6.3V 1500u
C807 50V 0.1u
AVR 3.3V
1
2
3
4
5
6
7
8
9
10
11
12

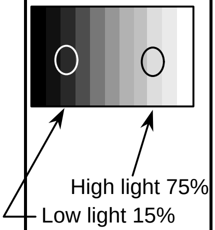
TH-42PHD6/TH-42PHW6
Z-BOARD (2 of 2) Schematic Diagram

TH-42PHD6/TH-42PHW6
Z-BOARD (2 of 2) Schematic Diagram

12 13 14 15

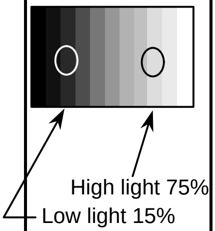
	INPUT	Equipment	Setting	Alignment menu	Procedure
1	RGB(PC) Gray Scale Pattern 		Picture: Normal White balance: **Cool** Aspect: 16:9 COMPONENT /RGB-IN: RGB	PANEL W/B R cut off G cut off B cut off Chroma Control: Gun off RGB Sub Adjust: G Sub Bright 1 Chroma Control: Gun off RGB Sub Adjust: B Sub Bright 1 Chroma Control: Gun off RGB Sub Adjust: R Sub Bright 1	** Adjust at the dark room. 1) Set R,G and B cut off to " **80** ". 2) Set Gun off to "**5**". (Only green pixels can emit.) 3) Adjust G Sub bright to start some of green pixels emission at black 2% area and no emission at black 0% area. 4) Set Gun off to "**3**". (Only blue pixels can emit.) 5) Adjust B Sub bright to start some of blue pixels emission at black 2% area and no emission at black 0% area. 6) Set Gun off to "**6**". (Only red pixels can emit.) 7) Adjust R Sub bright to start some of red pixels emission at black 2% area and no emission at black 0% area.
2	Component (525i, 525p, 625i, 720i or 1080i) Gray Scale Pattern 		Picture: Normal White balance: **Cool** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change input to Component signal. 2) Repeat procedure 1) to 7) of RGB input signal.

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	RGB(PC) Gray Scale Pattern 		Picture: Normal White balance: **Cool** Aspect: 16:9 COMPONENT /RGB-IN: RGB	PANEL W/B R cut off G cut off B cut off Chroma Control: Gun off RGB Sub Adjust: G Sub Bright 2 Chroma Control: Gun off RGB Sub Adjust: B Sub Bright 2 Chroma Control: Gun off RGB Sub Adjust: R Sub Bright 2	** Adjust at the dark room. 1) Press the SWAP button, change input to signal path. 2) Set R,G and B cut off to " 3) Set Gun off to "**5**". (Only green pixels can emit.) 4) Adjust G Sub bright to start some of green pixels emission at black 2% area and no emission at black 0% area. 5) Set Gun off to "**3**". (Only blue pixels can emit.) 6) Adjust B Sub bright to start some of blue pixels emission at black 2% area and no emission at black 0% area. 7) Set Gun off to "**6**". (Only red pixels can emit.) 8) Adjust R Sub bright to start some of red pixels emission at black 2% area and no emission at black 0% area.
2	Component (525i, 525p, 625i, 720i or 1080i) Gray Scale Pattern 		Picture: Normal White balance: **Cool** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change input to Component signal. 2) Repeat procedure 1) to 7) of RGB input signal.

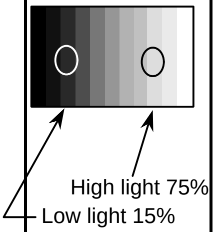
	INPUT	Equipment	Setting	Alignment menu	Procedure
1	NTSC Gray Scale Pattern  	Color Analyzer	Picture: Normal White balance: **Cool** Aspect: 16:9	Sub Adjust Sub Bright PANEL W/B G cut off PANEL W/B B cut off R cut off Sub Adjust Sub Bright PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive R,G,B Drive PANEL W/B R,G,B cut off	1) Find the nearest area to brightness of 10 cd/m$_2$ as Low light by color sensor. 2) Adjust Sub bright to set Low light level to 10 cd/m$_2$ exactly. 3) Set G cut off to " 80 ". 4) Adjust B and R cut off to set color temperature as shown Fig.-01. 5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m$_2$. 6)Find 75% of white area by color sensor. 7) Set G Drive to " D8 ". 8) Adjust B and R Drive to set color temperature as shown Fig.-01. 9) Repeat item 4) to 7) to set both Low light and high light. 10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC". 11) Re-adjust Low light level again.
2			Picture: Normal White balance: **Normal** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.
3			Picture: Normal White balance: **Warm** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Warm". 2) Repeat procedure 3) to 11) of Cool mode.
4			Picture: Normal White balance: **Cool** Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change color templature to "Cool". 2)Re-set Sub bright to "30"

Color Temp.	x	y
Cool(Hi)	0.276	0.276
Normal(Mid)	0.288	0.296
Warm(Low)	0.313	0.329

Fig. -01

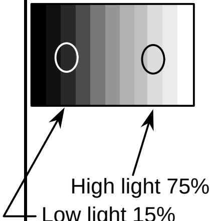
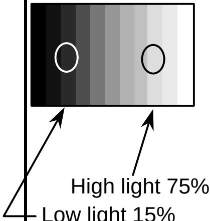
<table>
<tr><th></th><th>INPUT</th><th>Equipment</th><th>Setting</th><th>Alignment menu</th><th>Procedure</th></tr>
<tr><td>1</td><td rowspan="3">PAL
Gray Scale
Pattern
 </td><td rowspan="3">Color
Analyzer</td><td>Picture:
Normal
White balance:
Cool
Aspect:
16:9</td><td>Sub Adjust
Sub Bright
PANEL W/B
G cut off
PANEL W/B
B cut off
R cut off
Sub Adjust
Sub Bright
PANEL W/B
G Drive
PANEL W/B
B Drive
R Drive
PANEL W/B
R,G,B Drive
R,G,B Drive
PANEL W/B
R,G,B cut off</td><td>1) Find the nearest area to brightness of 10 cd/m^2 as Low light by color sensor.
2) Adjust Sub bright to set Low light level to 10 cd/m^2 exactly.
3) Set G cut off to " 80 ".
4) Adjust B and R cut off to set color temperature as shown Fig.-02.
5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m^2.
6)Find 75% of white area by color sensor.
7) Set G Drive to " D8 ".
8) Adjust B and R Drive to set color temperature as shown Fig.-02.
9) Repeat procedure 4) to 7) to set both Low light and high light.
10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC".
11) Re-adjust Low light level again.
<table><tr><th>Color Temp.</th><th>x</th><th>y</th></tr><tr><td>Cool(Hi)</td><td>0.276</td><td>0.276</td></tr><tr><td>Normal(Mid)</td><td>0.288</td><td>0.296</td></tr><tr><td>Warm(Low)</td><td>0.313</td><td>0.329</td></tr></table>Fig. -02</td></tr>
<tr><td>2</td><td>Picture:
Normal
White balance:
Normal
Aspect:
16:9</td><td>PANEL W/B
R,G,B cut off
PANEL W/B
R,G,B Drive</td><td>1) Change white balance to "Normal".
2) Repeat procedure 3) to 11) of Cool mode.</td></tr>
<tr><td>3</td><td>Picture:
Normal
White balance:
Warm
Aspect:
16:9</td><td>PANEL W/B
R,G,B cut off
PANEL W/B
R,G,B Drive</td><td>1) Change white balance to "Warm".
2) Repeat procedure 3) to 11) of Cool mode.</td></tr>
<tr><td>4</td><td></td><td></td><td>Picture:
Normal
White balance:
Cool
Aspect:
16:9</td><td>Picture Menu
Sub Adjust
Sub Bright</td><td>1) Change color templature to "Cool".
2)Re-set Sub bright to "30"</td></tr>
</table>

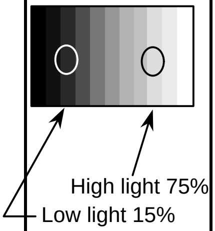
<table>
<tr><th></th><th></th><th>Equipment</th><th>Setting</th><th>Alignment menu</th><th>Procedure</th></tr>
<tr>
<td>5</td>
<td>SECAM signal</td>
<td></td>
<td>Picture:
Normal
Aspect:
16:9
White balance:
Cool
Normal
Warm</td>
<td></td>
<td>1) Write down each color temaparature of R,G,B drive and Cut off data as follows.
<table>
<tr><th>White Balance</th><th>Cool</th><th>Normal</th><th>Warm</th></tr>
<tr><td>R Drive</td><td></td><td></td><td></td></tr>
<tr><td>G Drive</td><td></td><td></td><td></td></tr>
<tr><td>B Drive</td><td></td><td></td><td></td></tr>
<tr><td>R Cut off</td><td></td><td></td><td></td></tr>
<tr><td>G Cut off</td><td></td><td></td><td></td></tr>
<tr><td>B Cut off</td><td></td><td></td><td></td></tr>
</table>
2) Input SECAM signal.
3) Copy PAL R,G,B drive and cut off data of each white balance mode to SECAM position.</td>
</tr>
</table>

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	PC Gray Scale Pattern  	Color Analyzer	Picture: Normal White balance: **Cool** Aspect: 16:9	Sub Adjust Sub Bright PANEL W/B G cut off PANEL W/B B cut off R cut off Sub Adjust Sub Bright PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive R,G,B Drive PANEL W/B R,G,B cut off	1) Find the nearest area to brightness of 10 cd/m$_2$ as Low light by color sensor. 2) Adjust Sub bright to set Low light level to 10 cd/m$_2$ exactly. 3) Set G cut off to " 80 ". 4) Adjust B and R cut off to set color temperature as shown Fig.-03. 5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m$_2$. 6)Find 75% of white area by color sensor. 7) Set G Drive to " D8 ". 8) Adjust B and R Drive to set color temperature as shown Fig.-03. 9) Repeat item 4) to 7) to set both Low light and high light. 10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC". 11) Re-adjust Low light level again.
2			Picture: Normal White balance: **Normal** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.
3			Picture: Normal White balance: **Warm** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Warm". 2) Repeat procedure 3) to 11) of Cool mode.
4			Picture: Normal White balance: **Cool** Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change color templature to "Cool". 2)Re-set Sub bright to "30"

Color Temp.	x	y
Cool(Hi)	0.276	0.276
Normal(Mid)	0.288	0.296
Warm(Low)	0.313	0.329

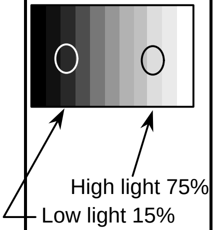
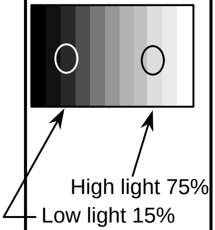
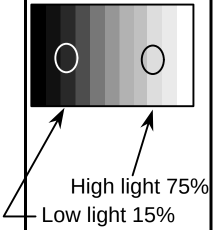
Fig. -03

<table>
<tr><th></th><th>INPUT</th><th>Equipment</th><th>Setting</th><th>Alignment menu</th><th>Procedure</th></tr>
<tr><td>5</td><td>RGB
Gray Scale
Pattern
 </td><td></td><td>Picture:
Normal
Aspect:
16:9
White balance:
Cool
Normal
Warm</td><td></td><td>1) Write down each color temaparature of R,G,B drive and Cut off data as follows.
<table>
<tr><th>White Balance</th><th>Cool</th><th>Normal</th><th>Warm</th></tr>
<tr><td>R Drive</td><td></td><td></td><td></td></tr>
<tr><td>G Drive</td><td></td><td></td><td></td></tr>
<tr><td>B Drive</td><td></td><td></td><td></td></tr>
<tr><td>R Cut off</td><td></td><td></td><td></td></tr>
<tr><td>G Cut off</td><td></td><td></td><td></td></tr>
<tr><td>B Cut off</td><td></td><td></td><td></td></tr>
</table>
2) Input RGB signal.
3) Copy PC R,G,B drive and cut off data of each white balance mode to RGB position.</td></tr>
<tr><td>6</td><td>DVI
Gray Scale
Pattern
 </td><td></td><td>Picture:
Normal
Aspect:
16:9
White balance:
Cool
Normal
Warm</td><td></td><td>1) Write down each color temaparature of R,G,B drive and Cut off data as follows.
<table>
<tr><th>White Balance</th><th>Cool</th><th>Normal</th><th>Warm</th></tr>
<tr><td>R Drive</td><td></td><td></td><td></td></tr>
<tr><td>G Drive</td><td></td><td></td><td></td></tr>
<tr><td>B Drive</td><td></td><td></td><td></td></tr>
<tr><td>R Cut off</td><td></td><td></td><td></td></tr>
<tr><td>G Cut off</td><td></td><td></td><td></td></tr>
<tr><td>B Cut off</td><td></td><td></td><td></td></tr>
</table>
2) Input DVI signal.
3) Copy PC R,G,B drive and cut off data of each white balance mode to DVI position.</td></tr>
</table>

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	HD (720i or 1080i) Gray Scale Pattern 	Color Analyzer	Picture: Normal White balance: **Cool** Aspect: 16:9	Sub Adjust Sub Bright PANEL W/B G cut off PANEL W/B B cut off R cut off Sub Adjust Sub Bright PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive R,G,B Drive PANEL W/B R,G,B cut off	1) Find the nearest area to brightness of 10 cd/m_2 as Low light by color sensor. 2) Adjust Sub bright to set Low light level to 10 cd/m_2 exactly. 3) Set G cut off to " 80 ". 4) Adjust B and R cut off to set color temperature as shown Fig.-04. 5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m_2. 6)Find 75% of white area by color sensor. 7) Set G Drive to " D8 ". 8) Adjust B and R Drive to set color temperature as shown Fig.-04. 9) Repeat item 4) to 7) to set both Low light and high light. 10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC". 11) Re-adjust Low light level again.
2			Picture: Normal White balance: **Normal** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.
3			Picture: Normal White balance: **Warm** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Warm". 2) Repeat procedure 3) to 11) of Cool mode.
4			Picture: Normal White balance: **Cool** Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change color templature to "Cool". 2)Re-set Sub bright to "30"

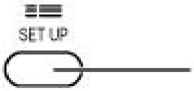
Color Temp.	x	y
Cool(Hi)	0.276	0.276
Normal(Mid)	0.288	0.296
Warm(Low)	0.313	0.329

Fig. -04

<table>
<tr><th></th><th>INPUT</th><th>Equipment</th><th>Setting</th><th>Alignment menu</th><th>Procedure</th></tr>
<tr><td>5</td><td>RGB
Gray Scale
Pattern
 </td><td></td><td>Picture:
Normal
Aspect:
16:9
White balance:
Cool
Normal
Warm</td><td></td><td>1) Write down each color temaparature of R,G,B drive and Cut off data as follows.
<table>
<tr><th>White Balance</th><th>Cool</th><th>Normal</th><th>Warm</th></tr>
<tr><td>R Drive</td><td></td><td></td><td></td></tr>
<tr><td>G Drive</td><td></td><td></td><td></td></tr>
<tr><td>B Drive</td><td></td><td></td><td></td></tr>
<tr><td>R Cut off</td><td></td><td></td><td></td></tr>
<tr><td>G Cut off</td><td></td><td></td><td></td></tr>
<tr><td>B Cut off</td><td></td><td></td><td></td></tr>
</table>
2)Change input signal to 525i and 525p.
3) Copy HD drive and cut off data of each white balance mode to each signals position.</td></tr>
<tr><td>6</td><td>RGB
Gray Scale
Pattern
 </td><td></td><td>Picture:
Normal
Aspect:
16:9
White balance:
Cool
Normal
Warm</td><td></td><td>1) Write down each color temaparature of R,G,B drive and Cut off data as follows.
<table>
<tr><th>White Balance</th><th>Cool</th><th>Normal</th><th>Warm</th></tr>
<tr><td>R Drive</td><td></td><td></td><td></td></tr>
<tr><td>G Drive</td><td></td><td></td><td></td></tr>
<tr><td>B Drive</td><td></td><td></td><td></td></tr>
<tr><td>R Cut off</td><td></td><td></td><td></td></tr>
<tr><td>G Cut off</td><td></td><td></td><td></td></tr>
<tr><td>B Cut off</td><td></td><td></td><td></td></tr>
</table>
2)Change input signal to 525p and 625i.
3) Copy HD drive and cut off data of each white balance mode to each signals position.</td></tr>
<tr><td>7</td><td>RGB
Gray Scale
Pattern
 </td><td></td><td>Picture:
Normal
Aspect:
16:9
White balance:
Cool
Normal
Warm</td><td></td><td>1) Write down each color temaparature of R,G,B drive and Cut off data as follows.
<table>
<tr><th>White Balance</th><th>Cool</th><th>Normal</th><th>Warm</th></tr>
<tr><td>R Drive</td><td></td><td></td><td></td></tr>
<tr><td>G Drive</td><td></td><td></td><td></td></tr>
<tr><td>B Drive</td><td></td><td></td><td></td></tr>
<tr><td>R Cut off</td><td></td><td></td><td></td></tr>
<tr><td>G Cut off</td><td></td><td></td><td></td></tr>
<tr><td>B Cut off</td><td></td><td></td><td></td></tr>
</table>
2)Change input signal to 625i and 625p.
3) Copy HD drive and cut off data of each white balance mode to each signals position.</td></tr>
</table>

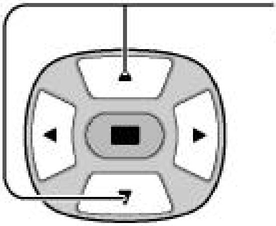
How to access the Option menu

1

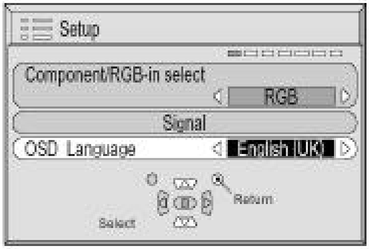


Press to display the Setup menu.

2



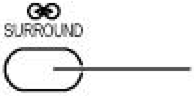
Press to select OSD Language.


Setup
Signal
Select
Return

Component/RGB-in select RGB

OSD Language English (UK)

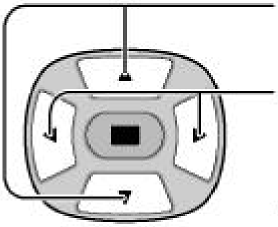
3



Press down for more than 3 seconds to display the Option menu.

Setting the Option menus

1

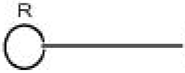


Press to select the desired item.

Press to select the desired function.

The option menu will disappear 60 seconds after operation.

2

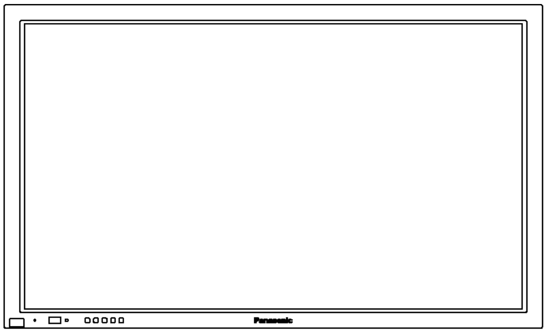


Press to exit Option menu.

ORDER NO. ITD0308027C0
D10 Canada: B07

Service Manual

High Definition Plasma Display



TH-42PHW6EX
TH-42PHD6EX
TH-42PHD6BX
TH-42PHD6UY

GPH6D Chassis

Specifications

Power Source:	AC120V 50/60Hz (UY version)
	AC220-240V 50/60Hz
	(Except UY version model)
Power Consumption:	265 W
	Save off 1.6 W, Save on 0.9 W (stand-by condition)
	(UY version)
	Save off 1.9 W, Save on 1.1 W (stand-by condition)
	(Except UY version model)
	0.2 W (Power off condition)
	(UY version model)
	0.4 W (Power off condition)
	(Except UY version model)
Plasma Display panel:	Drive method AC type
	16:9 aspect ratio
Contrast Ratio	3000:1
Screen size:	920 mm (W) × 518 mm (H)
	1,056 mm (diagonal)
	No. of pixels
	786,432 (1,024 (W) × 768 (H))
	[3,072 × 768 dots]
Operating condition:	
Temperature	34 °F - 104 °F (0 °C - 40 °C)
Humidity	20 % - 80 %
	Horizontal scanning frequency 15 - 110kHz
	Vertical scanning frequency 48 - 120Hz
Connection terminals:	

AV	
Video in	1.0 Vp-p (75-ohm)
S-VIDEO IN (MINI DIN 4PIN)	Y: 1 Vp-p (75-ohm), C: 0.286 Vp-p (75-ohm)
AUDIO IN (RCA PIN JACK × 2)	0.5 Vrms (high impedance)
COMPONENT/RGB	
Y/G	1.0 Vp-p/composite (75-ohm)
	0.7 Vp-p/non-composite (75-ohm)
P_B/B	0.7 Vp-p (75-ohm)
P_R/R	0.7 Vp-p (75-ohm)
HD	1.0 - 5.0 Vp-p (high impedance)
VD	1.0 - 5.0 Vp-p (high impedance)
AUDIO IN	0.5 Vrms (high impedance)
(RCA PIN JACK×2)	
PC	
(HIGH-DENSITY D-SUB15PIN)	R,G,B/0.7 Vp-p (75-ohm)
	HD, VD/1.0 - 5.0 Vp-p (high impedance)
AUDIO IN (M3 JACK)	0.5Vrms (high impedance)
SERIAL	
EXTERNAL CONTROL TERMINAL (D-SUB9PIN)	RS-232C COMPATIBLE
SPEAKERS (External speakers) (6Ω)	16W [8W+8W] (10% THD)
Dimensions (W×H×D):	1,020 mm × 610 mm 89 mm
Weight (Mass)	approx. 29.5 kg net (main unit only)
	approx. 33.7 kg net (with speakers)

Panasonic®

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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1 Applicable signals

VIDEO input

	signal name	horizontal frequency(kHz)	vertital frequency(Hz)
1	NTSC	15.734	59.95
2	PAL	15.625	50
3	PAL60	15.734	59.95
4	SECAM	15.625	50
5	Modified NTSC	15.734	59.95

∗ Mark:
By installing the optional Terminal Board.

Applicable input signals for PC Input (D-sub 15P) (* Mark)

	signal name	horizontal frequency(kHz)	vertital frequency(Hz)	RGB	PC	when Multi Screen and Digital Zoom
1	525(480)/60i	15.73	59.94	∗	∗	∗
2	525(480)/60p	31.47	59.94	∗	∗	∗
3	625(575)/50i	15.63	50.00	∗	∗	∗
4	625(575)/50p	31.25	50.00	∗	∗	∗
5	750(720)/60p	45.00	60.00	∗	∗	∗
6	750(720)/50p	37.50	50.00	∗	∗	∗
7	1,125(1,080)/60i	33.75	59.94	∗	∗	∗
8	1,125(1,080)/50i	28.13	50.00	∗	∗	∗
9	1,125(1,080)/24p	27.00	24.00	∗	∗	
10	1,125(1,080)/24sF	27.00	48.00	∗	∗	∗
11	1,250(1,080)/50i	31.25	50.00	∗	∗	∗
12	640×400@70 Hz	31.47	70.00		∗	∗
13	640×480@60 Hz	31.47	59.94		∗	∗
14	Macintosh13"(640×480)	35.00	66.67		∗	∗
15	640×480@75 Hz	37.50	75.00		∗	∗
16	852×480@60 Hz	31.50	60.00		∗	∗
17	800×600@60 Hz	37.88	60.32		∗	∗
18	800×600@75 Hz	46.88	75.00		∗	∗
19	800×600@85 Hz	53.67	85.06		∗	∗
20	Macintosh16"(832×624)	49.73	74.55		∗	∗
21	1,024×768@60 Hz	48.36	60.00		∗	∗
22	1,024×768@70 Hz	56.48	70.07		∗	∗
23	1,024×768@75 Hz	60.02	75.03		∗	∗
24	1,024×768@85 Hz	68.68	85.00		∗	∗
25	Macintosh21"(1,152×870)	68.68	75.06		∗	
26	1,280×1,024@60 Hz	63.98	60.02		∗	
27	1,280×1,024@75 Hz	79.98	75.03		∗	
28	1,280×1,024@85 Hz	91.15	85.02		∗	
29	1,600×1,200@60 Hz	75.00	60.00		∗	
30	1,0660×600@60 Hz	37.88	60.32		∗	∗
31	1,366×768@60 Hz	48.36	60.00		∗	∗

2 Safety Precautions

2.1. General Guidelines

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

2.1.1. Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1MΩ and 5.2MΩ.
   When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

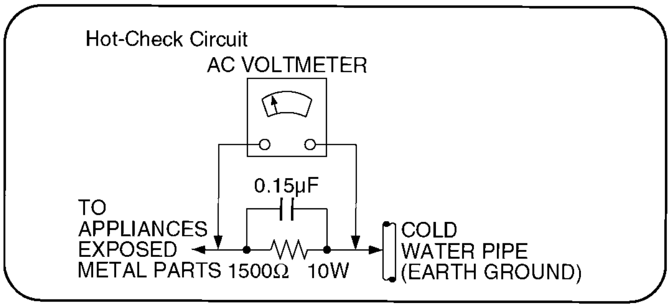

Hot-Check Circuit
AC VOLTMETER
0.15µF
TO APPLIANCES EXPOSED METAL PARTS
1500Ω
10W
COLD WATER PIPE (EARTH GROUND)

Figure 1

2.1.2. Leakage Current Hot Check (See Figure 1.)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 1.5kΩ, 10 watts resistor, in parallel with a 0.15µF capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

3 Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as alminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, alminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

   Caution

   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are imporant for safety.
These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

4 About lead free solder (PbF)

Note: Lead is listed as (Pb) in the periodic table of elements.

In the information below, Pb will refer to Lead solder, and PbF will refer to Lead Free Solder.

The Lead Free Solder used in our manufacturing process and discussed below is (Sn+Ag+Cu).

That is Tin (Sn), Silver (Ag) and Copper (Cu) although other types are available.

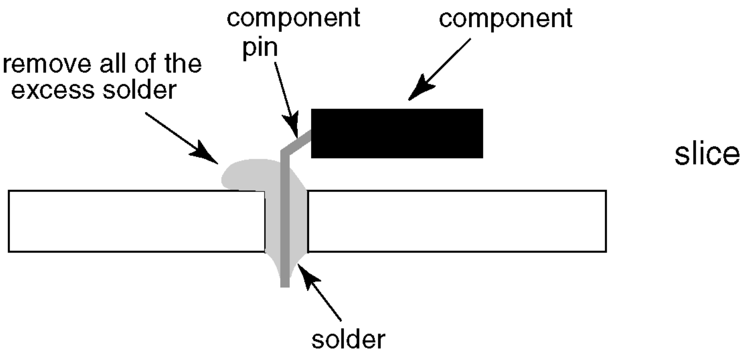
This model uses Pb Free solder in it’s manufacture due to environmental conservation issues. For service and repair work, we’d suggest the use of Pb free solder as well, although Pb solder may be used.

PCBs manufactured using lead free solder will have the PbF within a leaf Symbol PbF stamped on the back of PCB.

Caution

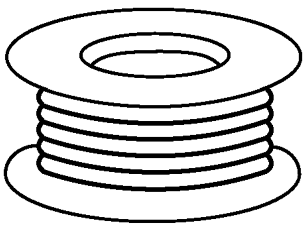
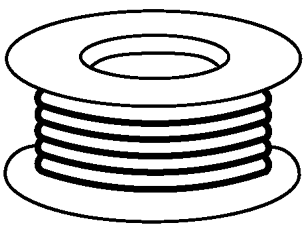
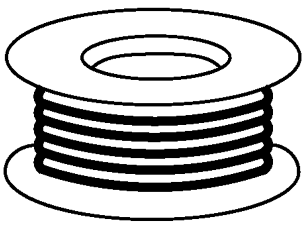
- Pb free solder has a higher melting point than standard solder. Typically the melting point is 50 ~ 70 °F (30~40 °C) higher. Please use a high temperature soldering iron and set it to 700 ± 20 °F (370 ± 10 °C).
- Pb free solder will tend to splash when heated too high (about 1100 °F or 600 °C).

  If you must use Pb solder, please completely remove all of the Pb free solder on the pins or solder area before applying Pb solder. If this is not practical, be sure to heat the Pb free solder until it melts, before applying Pb solder.
- After applying PbF solder to double layered boards, please check the component side for excess solder which may flow onto the opposite side. (see figure below)



Suggested Pb free solder

There are several kinds of Pb free solder available for purchase. This product uses Sn+Ag+Cu (tin, silver, copper) solder. However, Sn+Cu (tin, copper), Sn+Zn+Bi (tin, zinc, bismuth) solder can also be used.

0.3mm X 100g	0.6mm X 100g	1.0mm X 100g
		

5 PCB Structure sheet of GPH6D chassis

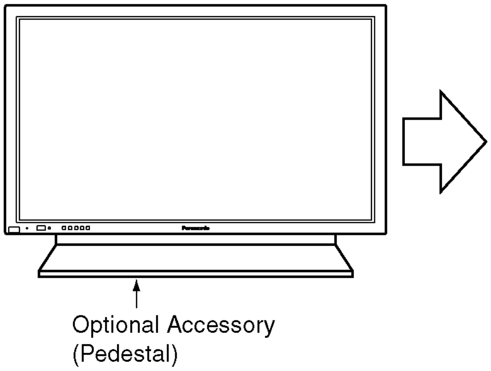
Board Name	Function	Remarks
D	Digital Signal Processor	1
J	Slot Interface & SYNC processor	1
Z	Audio out, DC-DC converter	
SS	Sustain Out	1
SC	Scan out	1
SU	Sustain connection (Upper)	1
SD	Sustain connection (Lower)	1
C1	Data Drive (Upper Right)	
C2	Data Drive (Upper Left)	
C3	Data Drive (Lower Left)	
C4	Data Drive (Lower Left)	
H3	Speaker terminal	
S1	Power switch	
SS2	Sustain connection (Upper)	
SS3	Sustain connection (Lower)	
V1	Front SW. & Remote receiver	
PF	Line filter	
P	Power supply	1
HX	PC_type_Input terminal	
HY	BNC Composite/Component Video	2
HZ	BNC Component Video	3

Remarks

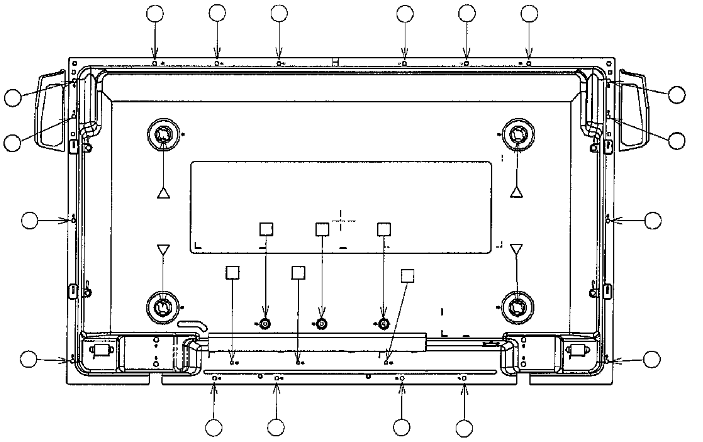
1. Recommend PCB´s for initial service for GPH6D chassis.
2. For System model except BX, EX version
3. For Consumer model except BX, EX version

6 Service Hint

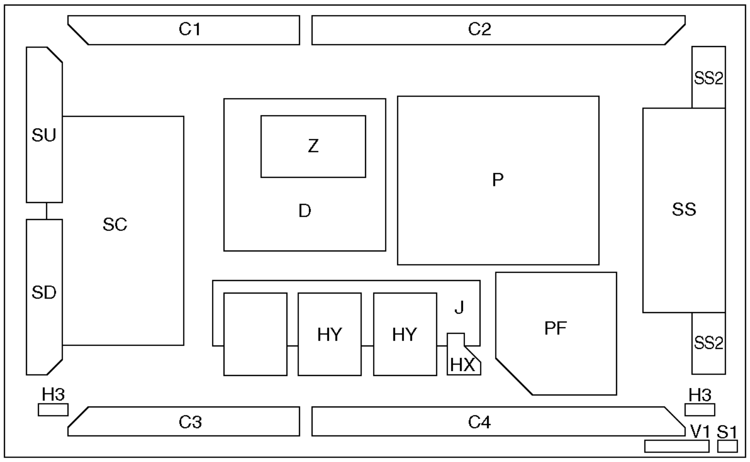
Stand the Unit used for Optional Accessory


Optional Accessory
(Pedestal)

Remove the Back Cover

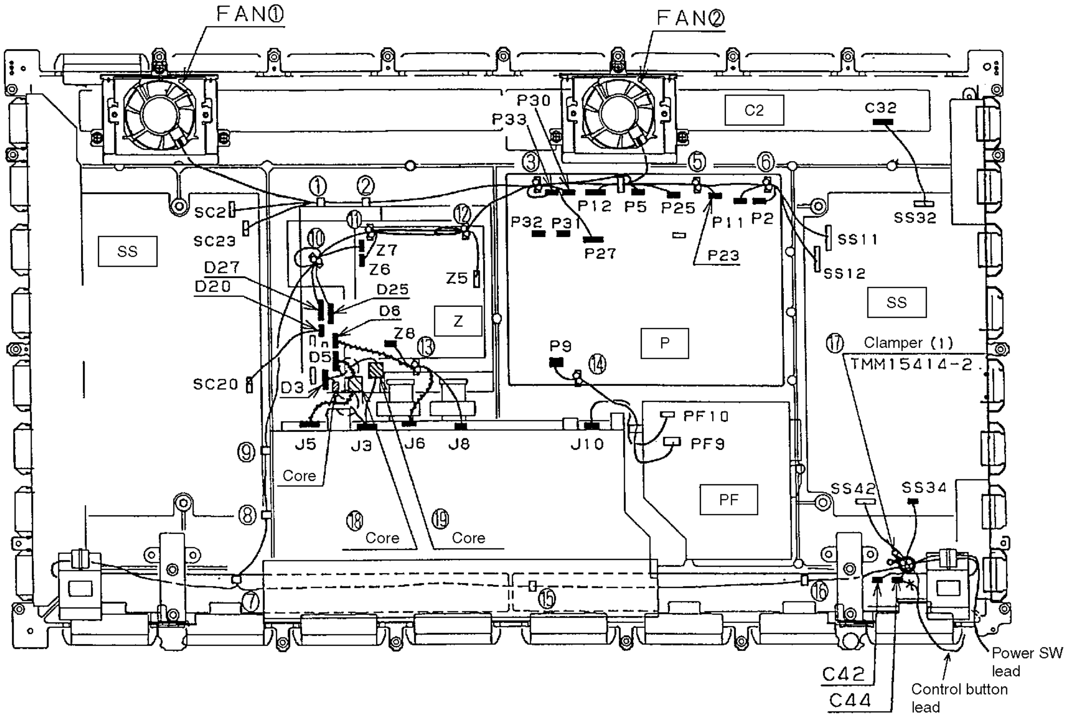


Remove: 4 screws (△) XYN8+F20FZ
6 screws (☐) THEL023Z
18 screws (○) XYC4+FJ35FZ


C1
C2
SS2
SU
Z
P
D
SC
SS
SD
J
HY
HY
PF
HX
SS2
H3
H3
C3
C4
V1
S1

Service Position

7 Location of Lead Wiring


FAN①
FAN②
P30
P33
C2
C32
SS32
③
⑤
⑥
①
②
SC2
SC23
SS
D27
D20
⑪
⑫
⑩
Z7
Z6
D25
Z5
D6
Z
Z8
⑬
D5
D3
SC20
P12
P5
P25
P11
P2
P32
P31
P27
P23
SS11
SS12
SS
P9
⑭
P
⑰
Clamper (1)
TMM15414-2
J5
J3
J6
J8
J10
PF10
PF9
⑨
Core
PF
SS42
SS34
⑧
⑱
Core
⑲
Core
⑦
⑮
⑯
C42
C44
Power SW lead
Control button lead

CLAMPER CON:NO — CON:NO	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑳
SC2 — P2	○	○	○	○	○	○														
SC23 — P23	○	○	○	○	○															
SC20 — D20																				
D27 — P27			○							◎	○	○								
D25 — P25			○	○						◎	○	○								
D3 — J3																			○	
D6 — J6													○							
Z8 — J8													○							
D5 — J5																		○		
Z5 — P5			○	○								◎								
SP (SC SIDE) — Z7							○	○	○	○										
SP (SS SIDE) — Z6							○	○	○	○	○				○	○	○			
SS12 — P12				○	○	○														
SS11 — P11						○														
SS42 — C42																	○			
SS32 — C32																				
POWER SW — SS34																	○			
CONTROL BUTTON — C44																	○			
PF9 — P9														○						
PF10 — J10																				
FAN① — P30	○	○	○																	
FAN② — P33			○	○																

◎ Wind up second times.

Connector Connection: P2, P5, P9, P11, P12, P23, P25, P27, P30, P31, P32, P33
Z6, Z7, Z8,
D3, D5, D6, D20, D25, D27
J3, J5, J6, J8, J10,
SS34,
C23, C42, C44

8 Adjustment Procedure

8.1. Driver Set-up

8.1.1. Item / Preparation

1. Input an APL 100 % white signal.
2. Set the picture controls: -

   Picture mode: Normal

   White balance: Cool

   Aspect: 16:9

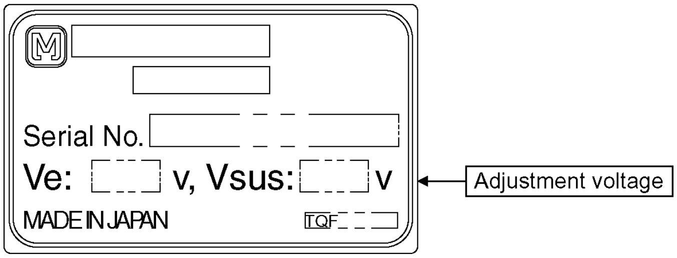
8.1.2. Adjustments

Adjust driver section voltages referring the panel data on the panel data label.

Name	Test Point	Voltage	Volume	Remarks
Vsus	TPVSUS (SS)	170V ± 2V	VR641 (P)	
Ve	TPVE (SS)	150V ± 1V	R6770 (SS)	
Vset	TPVSET (SC)	220V ± 5V	---	
Vad	TPVAD (SC)	-90V ± 1V	R6477 (SC)	
Vscn	TPVSCN (SC)	Vad*+118V ± 2V	---	
Vda	TPVDA (SS)	67V ± 1V	VR665 (P)	

*See the Panel label.

Panel Label information



8.2. Initialization Pulse Adjust

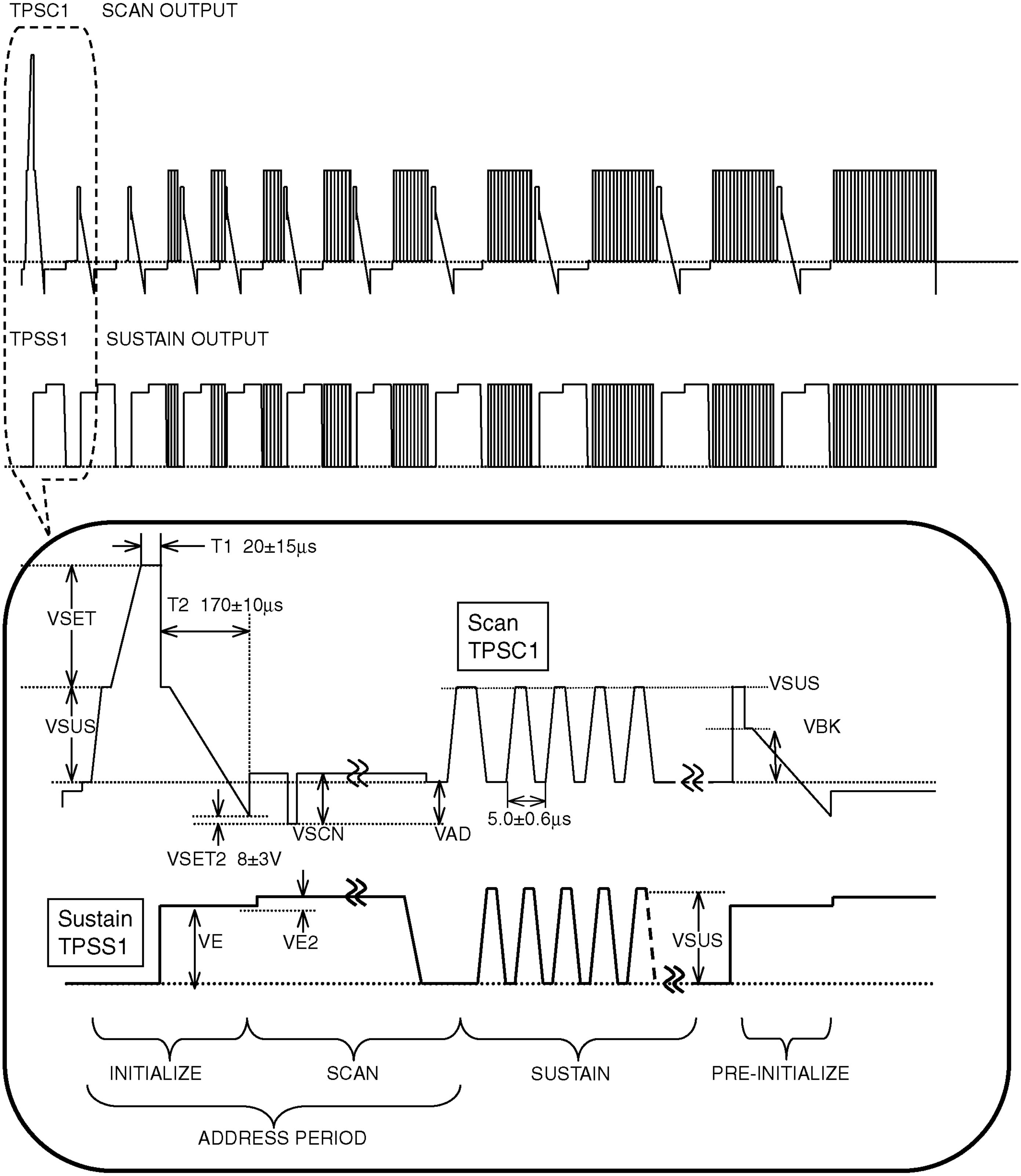
1. Input a Cross hatch signal.
2. Set the picture controls: -

   Picture mode: Normal

   White balance: Cool

Adjust the indicated test point for the specified wave form.

	Test point	Volume	Level
T1	TPSC1 (SC)	---	20 ± 15μ Sec
T2	TPSS1 (SS)	R6557 (SC)	170 ± 10μ Sec


TPSC1
SCAN OUTPUT
TPSS1
SUSTAIN OUTPUT
T1 20±15μs
VSET
T2 170±10μs
Scan
TPSC1
VSUS
VSUS
VBK
VSET2 8±3V
VSCN
VAD
5.0±0.6μs
Sustain
TPSS1
VE
VE2
VSUS
INITIALIZE
SCAN
SUSTAIN
PRE-INITIALIZE
ADDRESS PERIOD

8.3. P.C.B. (Printed Circuit Board) exchange

8.3.1. Caution

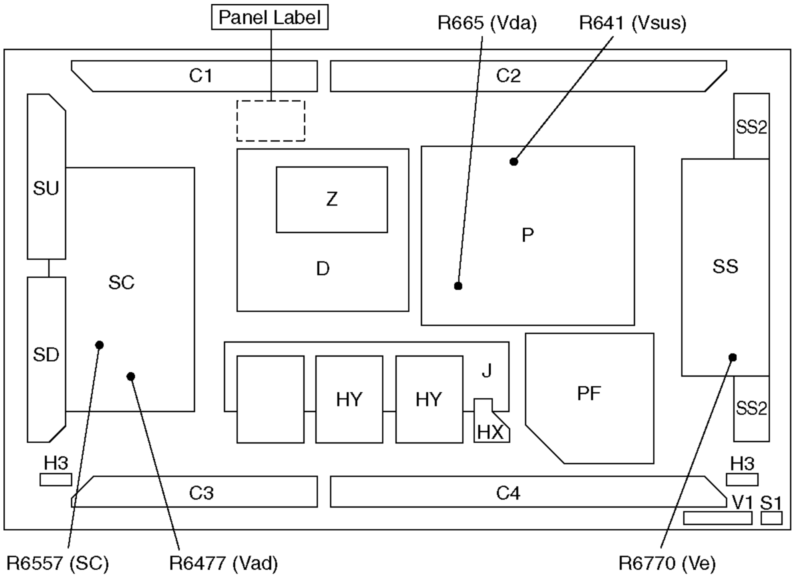
1. To remove P.C.B. , wait 1 minute after power was off for discharge from electrolysis capacitors.

8.3.2. Quick adjustment after P.C.B. exchange

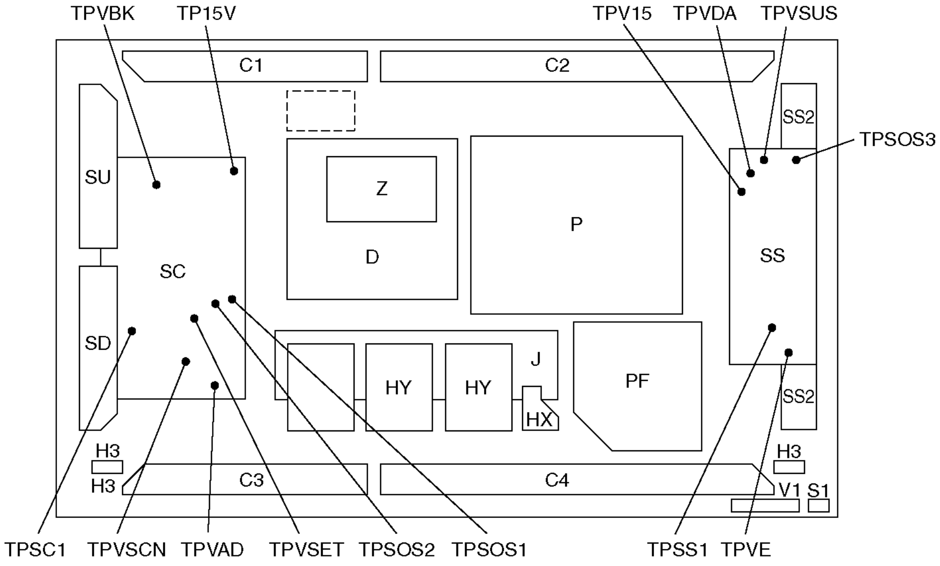
P.C.B.	Name	Test Point	Voltage	Volume	Remarks
P Board	Vsus	TPVSUS (SS)	170V ± 2V	R641 (P)	
	Vda	TPVDA (SS)	67V ± 1V	R665 (P)	
SC Board	Vad	TPVAD (SC)	-90V ± 1V	R6477 (SC)	
	Vset	TPVSET (SC)	220V ± 5V	---	
	Vscn	TPVSCN (SC)	Vad + 118 ± 2V	---	
SS Board	Ve	TPVE (SS)	158V ± 1V	R6770 (SS)	
D, J Board	White blance, Pedestal and Sub brightness for NTSC, PAL, HD, PC and 625i signals				

*See the Panel label.

8.4. Adjustment Volume Location


Panel Label
R665 (Vda)
R641 (Vsus)
C1
C2
SS2
SU
Z
P
D
SC
SS
SD
J
HY
HY
PF
SS2
HX
H3
H3
C3
C4
V1
S1
R6557 (SC)
R6477 (Vad)
R6770 (Ve)

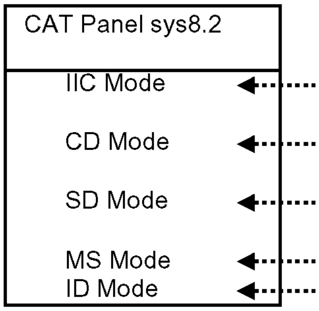
8.5. Test Point Location


TPVBK
TP15V
TPV15
TPVDA
TPVSUS
C1
C2
SS2
TPSOS3
SU
Z
P
SC
D
SS
SD
J
HY
HY
PF
SS2
HX
H3
H3
H3
C3
C4
V1
S1
TPSC1
TPVSCN
TPVAD
TPVSET
TPSOS2
TPSOS1
TPSS1
TPVE

9 Service mode

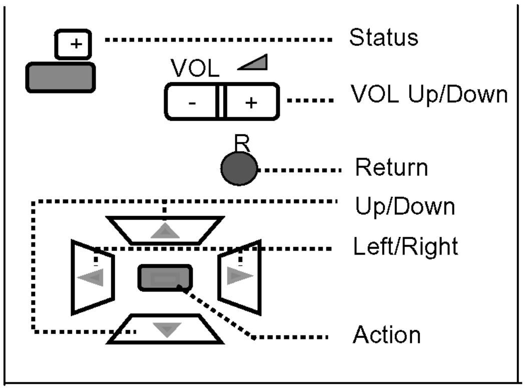
9.1. CAT (computer Aided Test) mode

CAT mode menu


CAT Panel sys8.2
IIC Mode
CD Mode
SD Mode
MS Mode
ID Mode

Mode	Function	Access button
IIC	Service Alignment	Action
CD(Complete Diagnostics)	Software version information EEPROM edit	Mute more than 5 seconds
SD(Status Display)	MTBF parameter	Action
MS Mode	Not use	-----
ID	Not use	-----

Remote control


+
VOL
-
+
R
Status
VOL Up/Down
Return
Up/Down
Left/Right
Action

How to access the CAT mode.

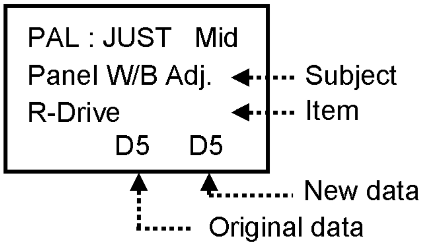
Press and the hold the Volume down / - buton on the front panel of the unit and press the status button on the remote control 3 times quickly within 1 second, this will place the unit into the CAT mode.

To exit the **CAT mode**, access the **ID mode** and switch off the main power.

9.1.1. IIC mode

Select the IIC mode by **Up/Down button** on the remote control at the front page of CAT mode then press the **Action button** on the remote control.

OSD


PAL : JUST Mid
Panel W/B Adj.
R-Drive
D5 D5
Subject
Item
New data
Original data

How to use the IIC mode.

1. Select the alignment **Subject** by **Up/Down buttons** on the remote control.
2 .Select the alignment **Item** by **Left/Right buttons** on the remote control.
3. Adjust **optimum setting** by **Volume Up/Down buttons** on the remote control.
4. The **data is memorized** when press the **R button** on the remote control or change the alignment Subject (or Items).

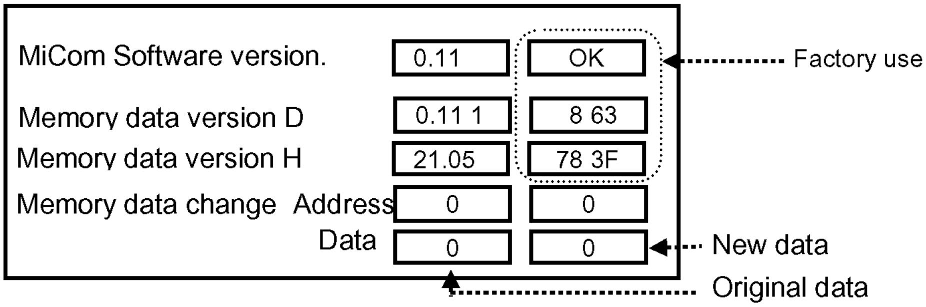
Subject and item are mentioned on page 14.

To exit the IIC mode, press the **R button** on the remote control.

9.1.2. CD mode

Select the CD mode by **Up/Down button** on the remote control at the front page of CAT mode then press the **Mute button** on the remote control more than 5 sec.

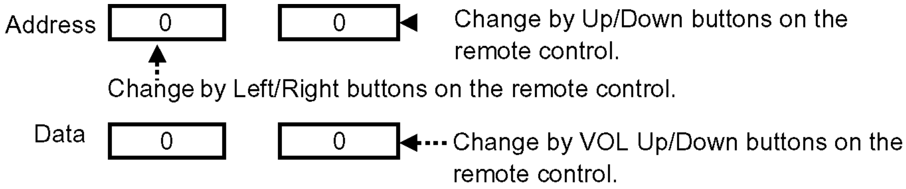
OSD


MiCom Software version.
0.11
OK
Memory data version D
0.11 1
8 63
Memory data version H
21.05
78 3F
Memory data change Address
0
0
Data
0
0
Factory use
New data
Original data

Micom software version (IC9354), this version can be upgrade by

1. replace of new version IC
2. Loading the new version software from loader tool, TZSC07036.

Memory data change


Address
0
0
Change by Up/Down buttons on the remote control.
Change by Left/Right buttons on the remote control.
Data
0
0
Change by VOL Up/Down buttons on the remote control.

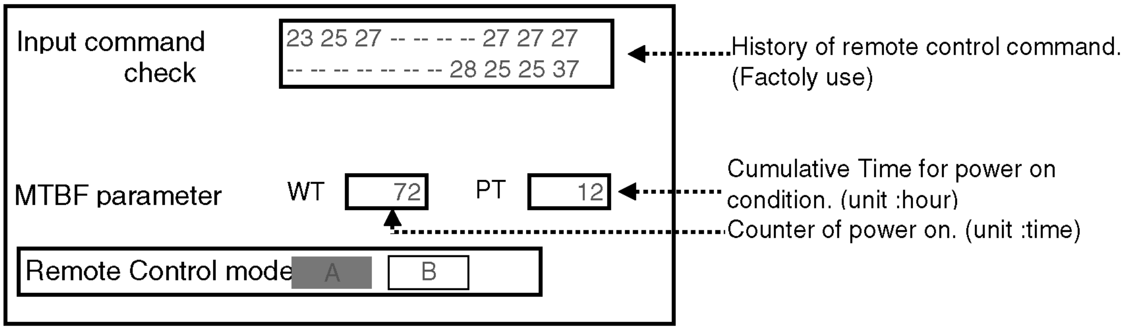
The data is memorized when switch off the main power.

To exit the CD mode, press the **R button** on the remote control.

9.1.3. SD mode

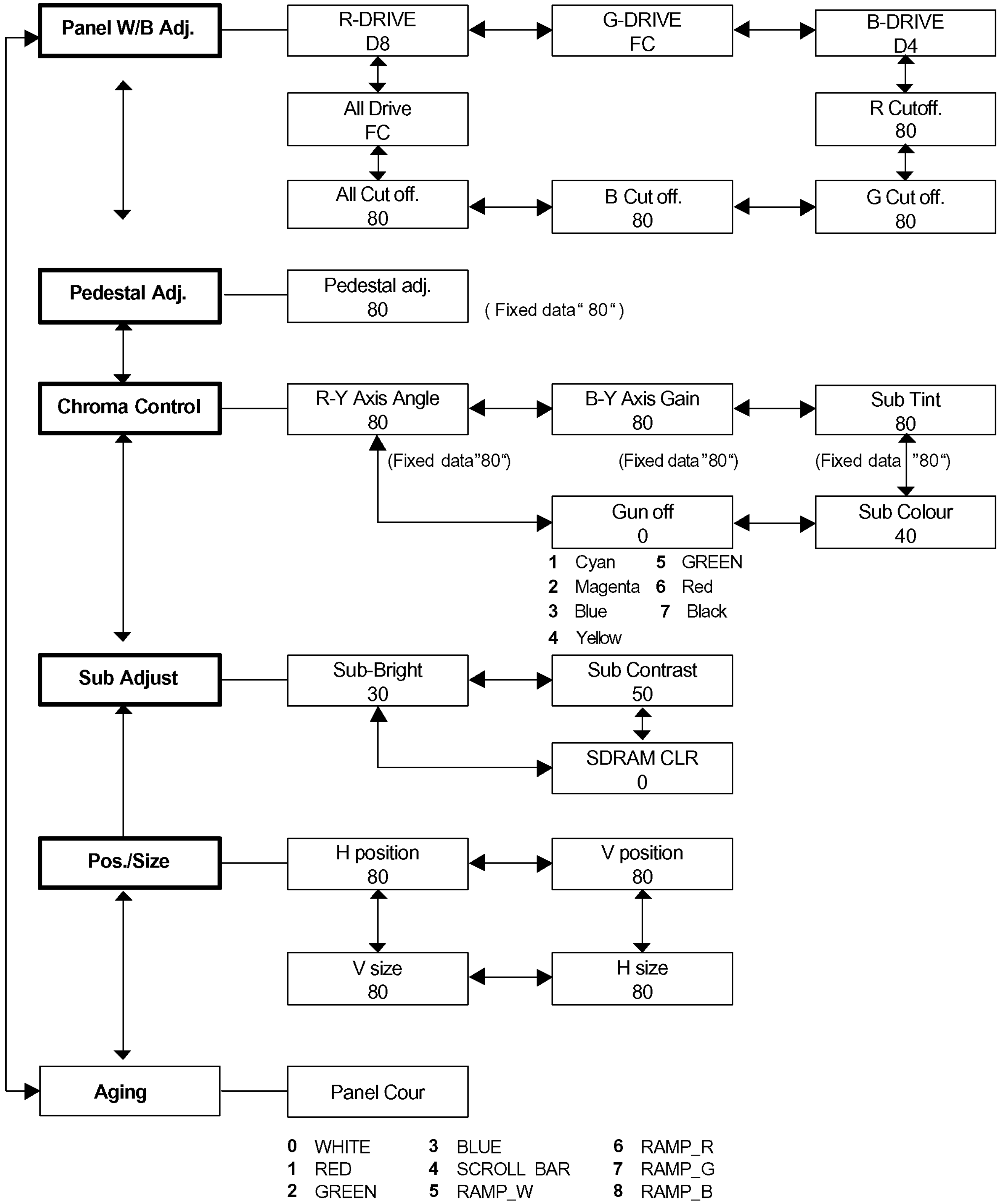
Select the SD mode by Up/Down button on the remote control at the front page of CAT mode then press the Action button on the remote control.

OSD


Input command check
23 25 27 -- -- -- -- 27 27 27
-- -- -- -- -- -- -- 28 25 25 37
History of remote control command. (Factoly use)
MTBF parameter
WT
72
PT
12
Cumulative Time for power on condition. (unit :hour)
Counter of power on. (unit :time)
Remote Control mode
A
B

To exit the SD mode, press the **R button** on the remote control.

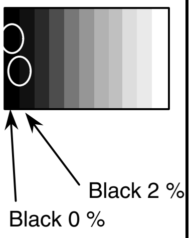
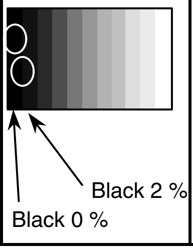
9.2. IIC mode structure (following items value is sample data.)


Panel W/B Adj.
R-DRIVE
D8
G-DRIVE
FC
B-DRIVE
D4
All Drive
FC
R Cutoff.
80
All Cut off.
80
B Cut off.
80
G Cut off.
80
Pedestal Adj.
Pedestal adj.
80
(Fixed data“ 80“)
Chroma Control
R-Y Axis Angle
80
B-Y Axis Gain
80
Sub Tint
80
(Fixed data”80“)
(Fixed data”80“)
(Fixed data ”80“)
Gun off
0
Sub Colour
40
1 Cyan
5 GREEN
2 Magenta
6 Red
3 Blue
7 Black
4 Yellow
Sub Adjust
Sub-Bright
30
Sub Contrast
50
SDRAM CLR
0
Pos./Size
H position
80
V position
80
V size
80
H size
80
Aging
Panel Cour
0 WHITE
1 RED
2 GREEN
3 BLUE
4 SCROLL BAR
5 RAMP_W
6 RAMP_R
7 RAMP_G
8 RAMP_B

These are selected by Action button of Remote.

10 Alignment

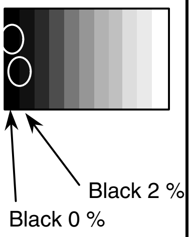
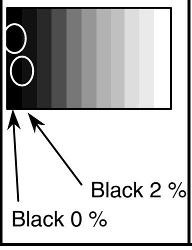
10.1. Pedestal setting (C)

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	RGB(PC) Gray Scale Pattern 		Picture: Normal White balance: **Cool** Aspect: 16:9 COMPONENT /RGB-IN: RGB	PANEL W/B R cut off G cut off B cut off Chroma Control: Gun off RGB Sub Adjust: G Sub Bright 1 Chroma Control: Gun off RGB Sub Adjust: B Sub Bright 1 Chroma Control: Gun off RGB Sub Adjust: R Sub Bright 1	** Adjust at the dark room. 1) Set R,G and B cut off to " **80** ". 2) Set Gun off to "**5**". (Only green pixels can emit.) 3) Adjust G Sub bright to start some of green pixels emission at black 2% area and no emission at black 0% area. 4) Set Gun off to "**3**". (Only blue pixels can emit.) 5) Adjust B Sub bright to start some of blue pixels emission at black 2% area and no emission at black 0% area. 6) Set Gun off to "**6**". (Only red pixels can emit.) 7) Adjust R Sub bright to start some of red pixels emission at black 2% area and no emission at black 0% area.
2	Component (525i, 525p, 625i, 720i or 1080i) Gray Scale Pattern 		Picture: Normal White balance: **Cool** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change input to Component signal. 2) Repeat procedure 1) to 7) of RGB input signal.

Note:

OSD is the difference between UY model and Except UY model.
Picture: Normal (Except UY)/Standard (UY model)
White balance (Except UY)/Color Temp (UY model)

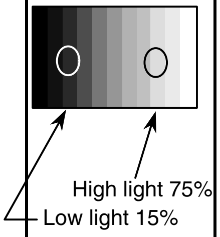
10.2. Pedestal setting (B)

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	RGB(PC) Gray Scale Pattern 		Picture: Normal White balance: **Cool** Aspect: 16:9 COMPONENT /RGB-IN: RGB	PANEL W/B R cut off G cut off B cut off Chroma Control: Gun off RGB Sub Adjust: G Sub Bright 2 Chroma Control: Gun off RGB Sub Adjust: B Sub Bright 2 Chroma Control: Gun off RGB Sub Adjust: R Sub Bright 2	** Adjust at the dark room. 1) Press the SWAP button, change input to signal path. 2) Set R,G and B cut off to " 3) Set Gun off to "**5**". (Only green pixels can emit.) 4) Adjust G Sub bright to start some of green pixels emission at black 2% area and no emission at black 0% area. 5) Set Gun off to "**3**". (Only blue pixels can emit.) 6) Adjust B Sub bright to start some of blue pixels emission at black 2% area and no emission at black 0% area. 7) Set Gun off to "**6**". (Only red pixels can emit.) 8) Adjust R Sub bright to start some of red pixels emission at black 2% area and no emission at black 0% area.
2	Component (525i, 525p, 625i, 720i or 1080i) Gray Scale Pattern 		Picture: Normal White balance: **Cool** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change input to Component signal. 2) Repeat procedure 1) to 7) of RGB input signal.

Note:

OSD is the difference between UY model and Except UY model.
Picture: Normal (Except UY)/Standard (UY model)
White balance (Except UY)/Color Temp (UY model)

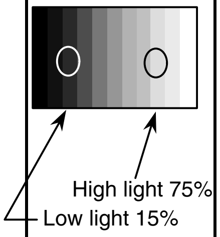
10.3. NTSC panel white balance

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	NTSC Gray Scale Pattern  	Color Analyzer	Picture: Normal White balance: **Cool** Aspect: 16:9	Sub Adjust Sub Bright PANEL W/B G cut off PANEL W/B B cut off R cut off Sub Adjust Sub Bright PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive R,G,B Drive PANEL W/B R,G,B cut off	1) Find the nearest area to brightness of 10 cd/m^2 as Low light by color sensor. 2) Adjust Sub bright to set Low light level to 10 cd/m^2 exactly. 3) Set G cut off to " 80 ". 4) Adjust B and R cut off to set color temperature as shown Fig.-01. 5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m^2. 6)Find 75% of white area by color sensor. 7) Set G Drive to " D8 ". 8) Adjust B and R Drive to set color temperature as shown Fig.-01. 9) Repeat item 4) to 7) to set both Low light and high light. 10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC". 11) Re-adjust Low light level again.
2			Picture: Normal White balance: **Normal** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.
3			Picture: Normal White balance: **Warm** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Warm". 2) Repeat procedure 3) to 11) of Cool mode.
4			Picture: Normal White balance: **Cool** Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change color templature to "Cool". 2)Re-set Sub bright to "30"

Color Temp.	x	y
Cool(Hi)	0.276	0.276
Normal(Mid)	0.288	0.296
Warm(Low)	0.313	0.329

Fig. -01

10.4. PAL/SECAM panel white balance

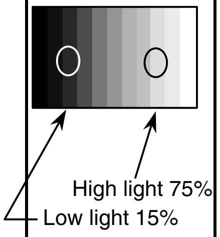
	INPUT	Equipment	Setting	Alignment menu	Procedure
1	PAL Gray Scale Pattern 	Color Analyzer	Picture: Normal White balance: **Cool** Aspect: 16:9	Sub Adjust Sub Bright PANEL W/B G cut off PANEL W/B B cut off R cut off Sub Adjust Sub Bright PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive R,G,B Drive PANEL W/B R,G,B cut off	1) Find the nearest area to brightness of 10 cd/m^2 as Low light by color sensor. 2) Adjust Sub bright to set Low light level to 10 cd/m^2 exactly. 3) Set G cut off to " 80 ". 4) Adjust B and R cut off to set color temperature as shown Fig.-02. 5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m^2. 6)Find 75% of white area by color sensor. 7) Set G Drive to " D8 ". 8) Adjust B and R Drive to set color temperature as shown Fig.-02. 9) Repeat procedure 4) to 7) to set both Low light and high light. 10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC". 11) Re-adjust Low light level again.
2			Picture: Normal White balance: **Normal** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.
3			Picture: Normal White balance: **Warm** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Warm". 2) Repeat procedure 3) to 11) of Cool mode.
4			Picture: Normal White balance: **Cool** Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change color templature to "Cool". 2)Re-set Sub bright to "30"

Color Temp.	x	y
Cool(Hi)	0.276	0.276
Normal(Mid)	0.288	0.296
Warm(Low)	0.313	0.329

Fig. -02

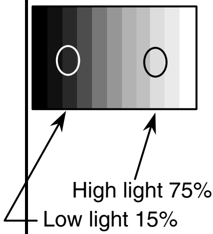
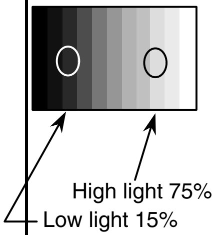
<table>
<tr><th></th><th></th><th>Equipment</th><th>Setting</th><th>Alignment menu</th><th>Procedure</th></tr>
<tr><td>5</td><td></td><td></td><td>Picture:
Normal
Aspect:
16:9
White balance:
Cool
Normal
Warm</td><td></td><td>1) Write down each color temaparature of R,G,B drive and Cut off data as follows.
<table>
<tr><th>White Balance</th><th>Cool</th><th>Normal</th><th>Warm</th></tr>
<tr><td>R Drive</td><td></td><td></td><td></td></tr>
<tr><td>G Drive</td><td></td><td></td><td></td></tr>
<tr><td>B Drive</td><td></td><td></td><td></td></tr>
<tr><td>R Cut off</td><td></td><td></td><td></td></tr>
<tr><td>G Cut off</td><td></td><td></td><td></td></tr>
<tr><td>B Cut off</td><td></td><td></td><td></td></tr>
</table></td></tr>
<tr><td></td><td>SECAM signal</td><td></td><td></td><td></td><td>2) Input SECAM signal.
3) Copy PAL R,G,B drive and cut off data of each white balance mode to SECAM position.</td></tr>
</table>

10.5. PC/RGB panel white balance

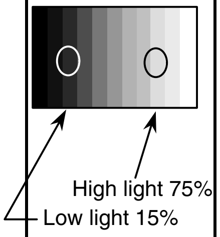
	INPUT	Equipment	Setting	Alignment menu	Procedure
1	PC Gray Scale Pattern 	Color Analyzer	Picture: Normal White balance: **Cool** Aspect: 16:9	Sub Adjust Sub Bright PANEL W/B G cut off PANEL W/B B cut off R cut off Sub Adjust Sub Bright PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive R,G,B Drive PANEL W/B R,G,B cut off	1) Find the nearest area to brightness of 10 cd/m^2 as Low light by color sensor. 2) Adjust Sub bright to set Low light level to 10 cd/m^2 exactly. 3) Set G cut off to " 80 ". 4) Adjust B and R cut off to set color temperature as shown Fig.-03. 5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m^2. 6)Find 75% of white area by color sensor. 7) Set G Drive to " D8 ". 8) Adjust B and R Drive to set color temperature as shown Fig.-03. 9) Repeat item 4) to 7) to set both Low light and high light. 10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC". 11) Re-adjust Low light level again.
2			Picture: Normal White balance: **Normal** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.
3			Picture: Normal White balance: **Warm** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Warm". 2) Repeat procedure 3) to 11) of Cool mode.
4			Picture: Normal White balance: **Cool** Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change color templature to "Cool". 2)Re-set Sub bright to "30"

Color Temp.	x	y
Cool(Hi)	0.276	0.276
Normal(Mid)	0.288	0.296
Warm(Low)	0.313	0.329

Fig. -03

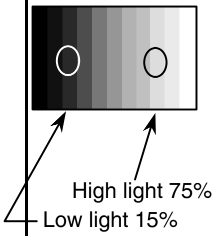
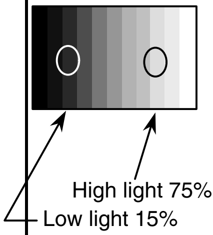
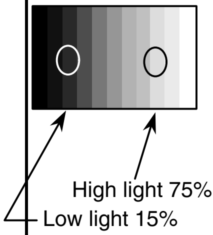
<table>
<tr><th></th><th>INPUT</th><th>Equipment</th><th>Setting</th><th>Alignment menu</th><th>Procedure</th></tr>
<tr><td>5</td><td>RGB
Gray Scale
Pattern
 </td><td></td><td>Picture:
Normal
Aspect:
16:9
White balance:
Cool
Normal
Warm</td><td></td><td>1) Write down each color temaparature of R,G,B drive and Cut off data as follows.
<table>
<tr><th>White Balance</th><th>Cool</th><th>Normal</th><th>Warm</th></tr>
<tr><td>R Drive</td><td></td><td></td><td></td></tr>
<tr><td>G Drive</td><td></td><td></td><td></td></tr>
<tr><td>B Drive</td><td></td><td></td><td></td></tr>
<tr><td>R Cut off</td><td></td><td></td><td></td></tr>
<tr><td>G Cut off</td><td></td><td></td><td></td></tr>
<tr><td>B Cut off</td><td></td><td></td><td></td></tr>
</table>
2) Input RGB signal.
3) Copy PC R,G,B drive and cut off data of each white balance mode to RGB position.</td></tr>
<tr><td>6</td><td>DVI
Gray Scale
Pattern
 </td><td></td><td>Picture:
Normal
Aspect:
16:9
White balance:
Cool
Normal
Warm</td><td></td><td>1) Write down each color temaparature of R,G,B drive and Cut off data as follows.
<table>
<tr><th>White Balance</th><th>Cool</th><th>Normal</th><th>Warm</th></tr>
<tr><td>R Drive</td><td></td><td></td><td></td></tr>
<tr><td>G Drive</td><td></td><td></td><td></td></tr>
<tr><td>B Drive</td><td></td><td></td><td></td></tr>
<tr><td>R Cut off</td><td></td><td></td><td></td></tr>
<tr><td>G Cut off</td><td></td><td></td><td></td></tr>
<tr><td>B Cut off</td><td></td><td></td><td></td></tr>
</table>
2) Input DVI signal.
3) Copy PC R,G,B drive and cut off data of each white balance mode to DVI position.</td></tr>
</table>

10.6. HD/ 525i /525p /625I /625P panel white balance

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	HD (720i or 1080i) Gray Scale Pattern 	Color Analyzer	Picture: Normal White balance: **Cool** Aspect: 16:9	Sub Adjust Sub Bright PANEL W/B G cut off PANEL W/B B cut off R cut off Sub Adjust Sub Bright PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive R,G,B Drive PANEL W/B R,G,B cut off	1) Find the nearest area to brightness of 10 cd/m$_2$ as Low light by color sensor. 2) Adjust Sub bright to set Low light level to 10 cd/m$_2$ exactly. 3) Set G cut off to " 80 ". 4) Adjust B and R cut off to set color temperature as shown Fig.-04. 5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m$_2$. 6)Find 75% of white area by color sensor. 7) Set G Drive to " D8 ". 8) Adjust B and R Drive to set color temperature as shown Fig.-04. 9) Repeat item 4) to 7) to set both Low light and high light. 10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC". 11) Re-adjust Low light level again.
2			Picture: Normal White balance: **Normal** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.
3			Picture: Normal White balance: **Warm** Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Warm". 2) Repeat procedure 3) to 11) of Cool mode.
4			Picture: Normal White balance: **Cool** Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change color templature to "Cool". 2)Re-set Sub bright to "30"

Color Temp.	x	y
Cool(Hi)	0.276	0.276
Normal(Mid)	0.288	0.296
Warm(Low)	0.313	0.329

Fig. -04

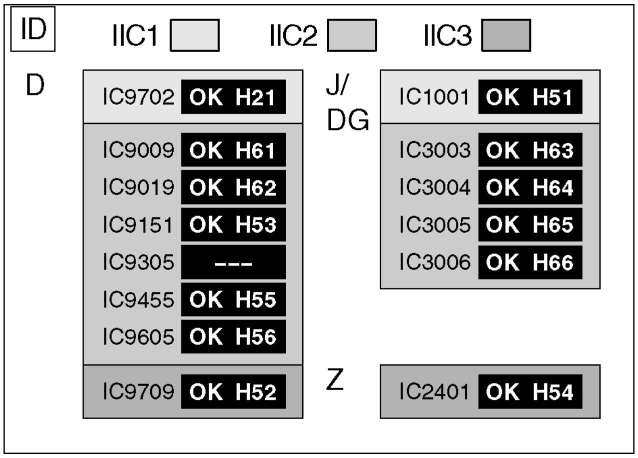
<table>
<tr><th></th><th>INPUT</th><th>Equipment</th><th>Setting</th><th>Alignment menu</th><th>Procedure</th></tr>
<tr><td>5</td><td>RGB
Gray Scale
Pattern
 </td><td></td><td>Picture:
Normal
Aspect:
16:9
White balance:
Cool
Normal
Warm</td><td></td><td>1) Write down each color temaparature of R,G,B drive and Cut off data as follows.
<table>
<tr><th>White Balance</th><th>Cool</th><th>Normal</th><th>Warm</th></tr>
<tr><td>R Drive</td><td></td><td></td><td></td></tr>
<tr><td>G Drive</td><td></td><td></td><td></td></tr>
<tr><td>B Drive</td><td></td><td></td><td></td></tr>
<tr><td>R Cut off</td><td></td><td></td><td></td></tr>
<tr><td>G Cut off</td><td></td><td></td><td></td></tr>
<tr><td>B Cut off</td><td></td><td></td><td></td></tr>
</table>
2)Change input signal to 525i and 525p.
3) Copy HD drive and cut off data of each white balance mode to each signals position.</td></tr>
<tr><td>6</td><td>RGB
Gray Scale
Pattern
 </td><td></td><td>Picture:
Normal
Aspect:
16:9
White balance:
Cool
Normal
Warm</td><td></td><td>1) Write down each color temaparature of R,G,B drive and Cut off data as follows.
<table>
<tr><th>White Balance</th><th>Cool</th><th>Normal</th><th>Warm</th></tr>
<tr><td>R Drive</td><td></td><td></td><td></td></tr>
<tr><td>G Drive</td><td></td><td></td><td></td></tr>
<tr><td>B Drive</td><td></td><td></td><td></td></tr>
<tr><td>R Cut off</td><td></td><td></td><td></td></tr>
<tr><td>G Cut off</td><td></td><td></td><td></td></tr>
<tr><td>B Cut off</td><td></td><td></td><td></td></tr>
</table>
2)Change input signal to 525p and 625i.
3) Copy HD drive and cut off data of each white balance mode to each signals position.</td></tr>
<tr><td>7</td><td>RGB
Gray Scale
Pattern
 </td><td></td><td>Picture:
Normal
Aspect:
16:9
White balance:
Cool
Normal
Warm</td><td></td><td>1) Write down each color temaparature of R,G,B drive and Cut off data as follows.
<table>
<tr><th>White Balance</th><th>Cool</th><th>Normal</th><th>Warm</th></tr>
<tr><td>R Drive</td><td></td><td></td><td></td></tr>
<tr><td>G Drive</td><td></td><td></td><td></td></tr>
<tr><td>B Drive</td><td></td><td></td><td></td></tr>
<tr><td>R Cut off</td><td></td><td></td><td></td></tr>
<tr><td>G Cut off</td><td></td><td></td><td></td></tr>
<tr><td>B Cut off</td><td></td><td></td><td></td></tr>
</table>
2)Change input signal to 625i and 625p.
3) Copy HD drive and cut off data of each white balance mode to each signals position.</td></tr>
</table>

11 Trouble shooting guide

11.1. Self Check

11.1.1. Display Indication

1. Self-check is used to automatically check the bus line controlled circuit of the Plasma display.
2. To get into the Self-check mode, press the **volume down** button on the customer controls at the front of the set, at the same time pressing the **OFF-TIMER** button on the remote control, and the screen will show :-



ID IIC1 ☐ IIC2 ▨ IIC3 ■

D
IC9702 OK H21
IC9009 OK H61
IC9019 OK H62
IC9151 OK H53
IC9305 ---
IC9455 OK H55
IC9605 OK H56
IC9709 OK H52

J/DG
IC1001 OK H51
IC3003 OK H63
IC3004 OK H64
IC3005 OK H65
IC3006 OK H66

Z
IC2401 OK H54

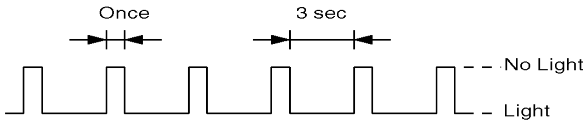
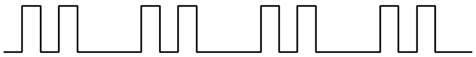
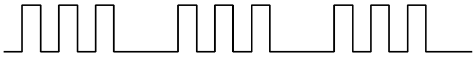
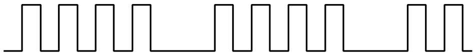
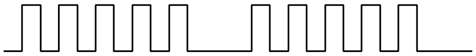
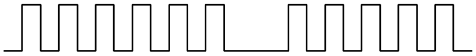
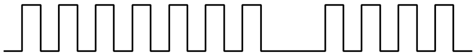
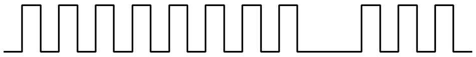
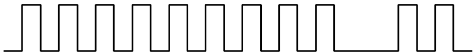
If the CCU ports have been checked and found to be incorrect Or not located then " - - " will appear in place of " OK "

11.1.2. Power LED Blinking timing chart

1. Subject

   Information of LED Flashing timing chart.
2. Contents

   When an abnormality has occurred the unit, the protection circuit operates and reset to the stand by mode. At this time, the defective block can be identified by the number of blinkes of the Power LED on the front panel of the unit.

Blinking times	Blinking timing	Contents & Check point
1		Main Micom Power
2		SCAN Driver1
3		3.3V SOS
4		5V SOS
5		Power SOS
6		FAN
7		SCAN Driver2
8		TEMP (Not used)
9		SUS Driver

3. Remarks

   Above Fan function is operated during the fans are installed.

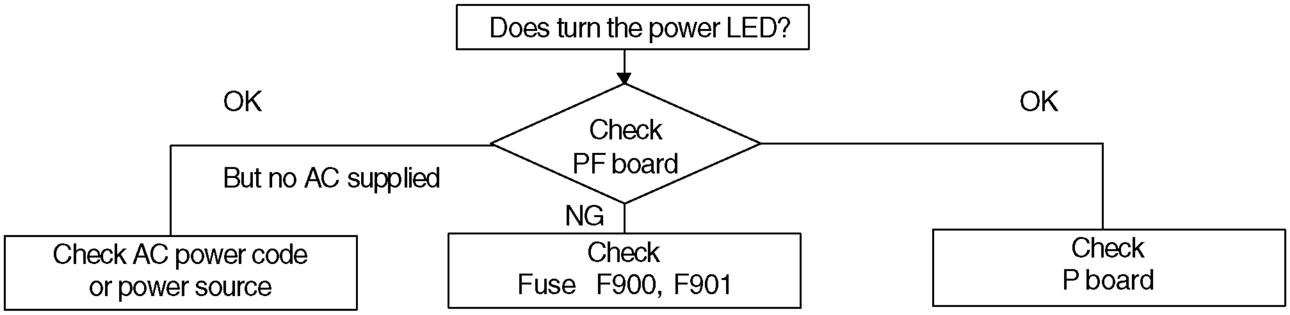
11.2. No Power

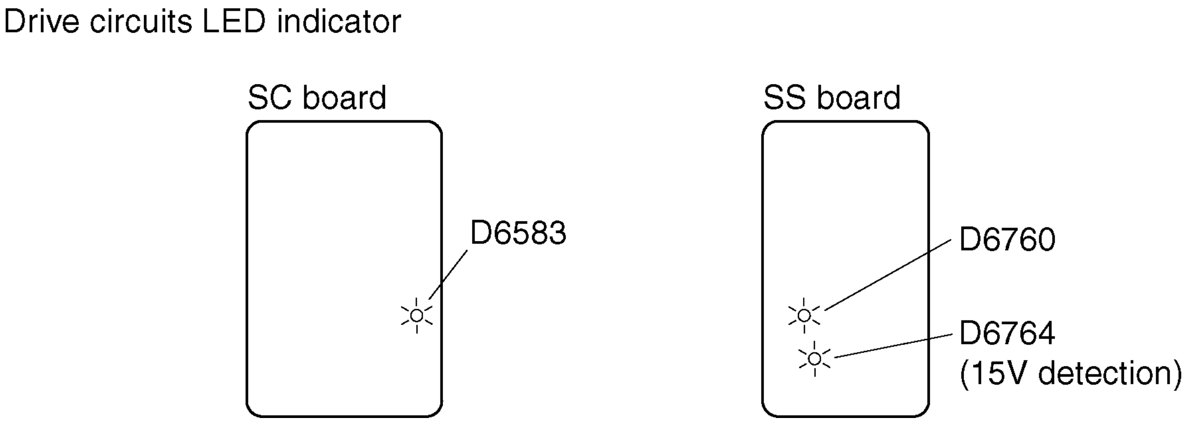
First check point

There are following 3 states of No Power indication by power LED.

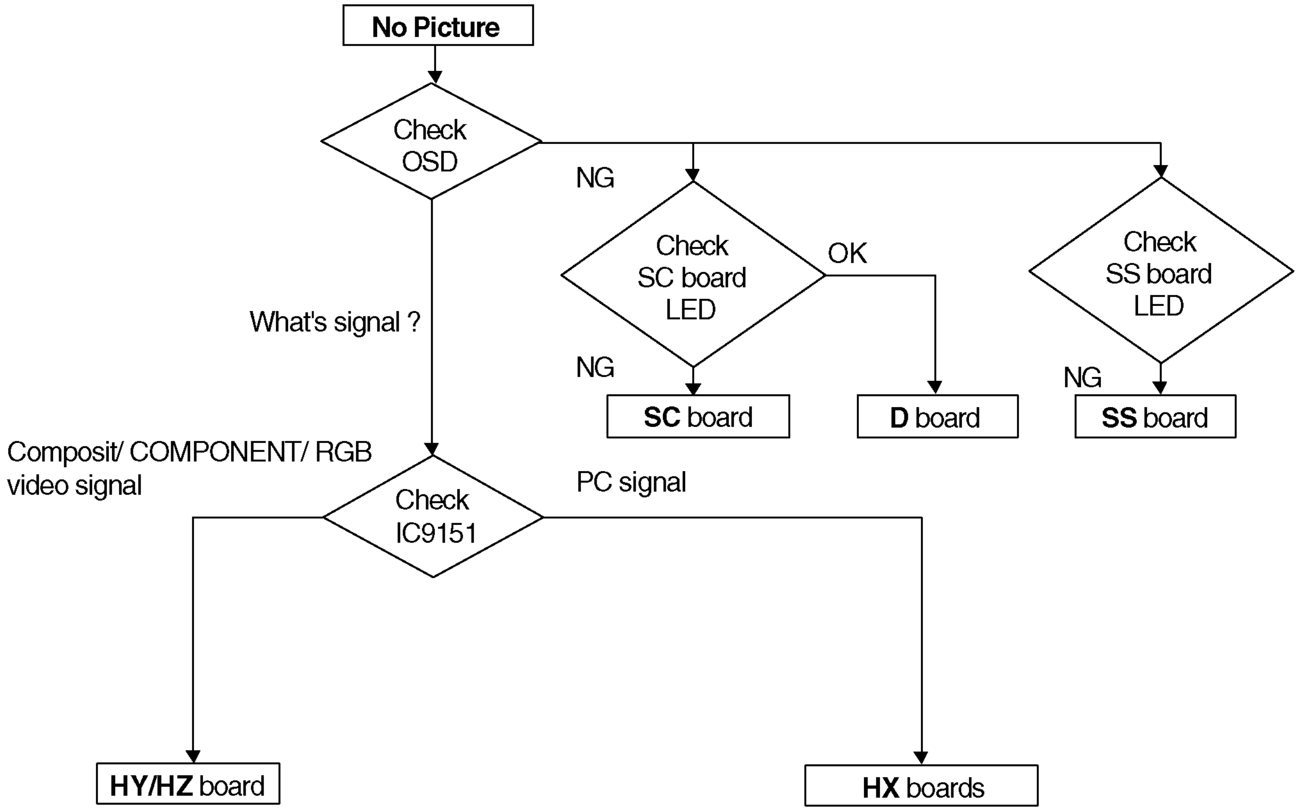
1. No lit
2. Green is lit then turns red blinking a few seconds later.
3. Only red is lit.

1. No lit


Does turn the power LED?
OK
Check
PF board
OK
But no AC supplied
NG
Check AC power code
or power source
Check
Fuse F900, F901
Check
P board

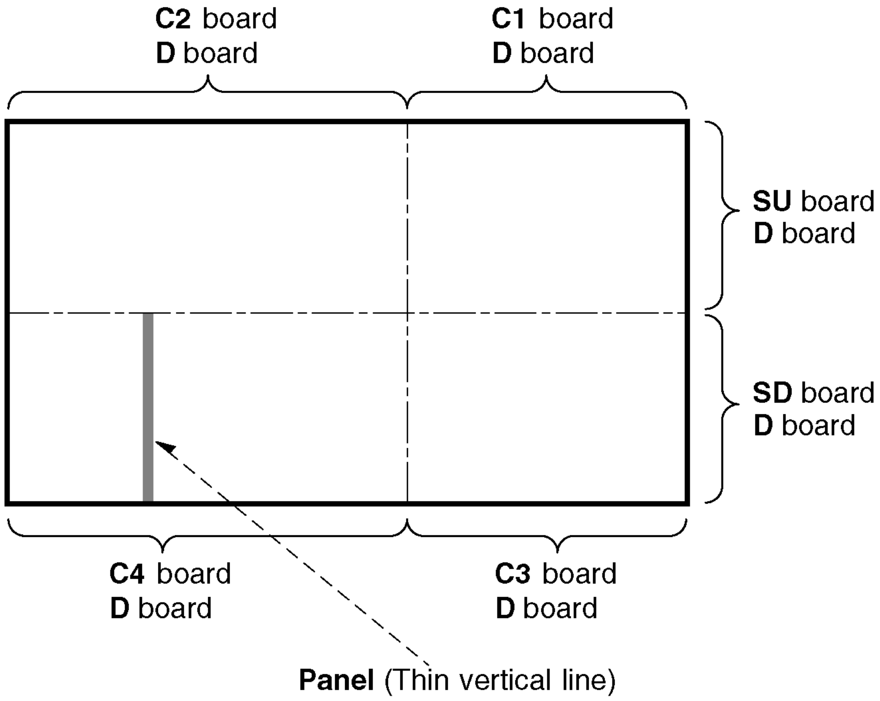

Drive circuits LED indicator
SC board
D6583
SS board
D6760
D6764
(15V detection)

11.3. No Picture


No Picture
Check OSD
NG
Check SC board LED
OK
Check SS board LED
What's signal ?
NG
NG
SC board
D board
SS board
Composit/ COMPONENT/ RGB video signal
Check IC9151
PC signal
HY/HZ board
HX boards

11.4. Local screen failure

Plasma display may have local area failure on the screen. Fig - 1 is the possible defect P.C.B. for each local area.


C2 board
D board
C1 board
D board
SU board
D board
SD board
D board
C4 board
D board
C3 board
D board
Panel (Thin vertical line)

<Local screen failure chart>

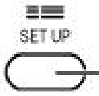
Fig - 1

12 Option Setting

12.1. How to access and setting

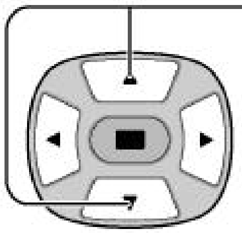
How to access the Option menu

1

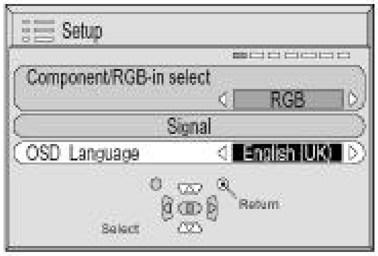


Press to display the Setup menu.

2



Press to select OSD Language.



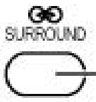
Setup

Component/RGB-in select RGB

Signal

OSD Language English (UK)

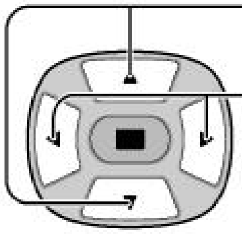
3



Press down for more than 3 seconds to display the Option menu.

Setting the Option menus

1

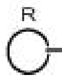


Press to select the desired item.

Press to select the desired function.

The option menu will disappear 60 seconds after operation.

2



Press to exit Option menu.

12.2. Contents of Option Menu

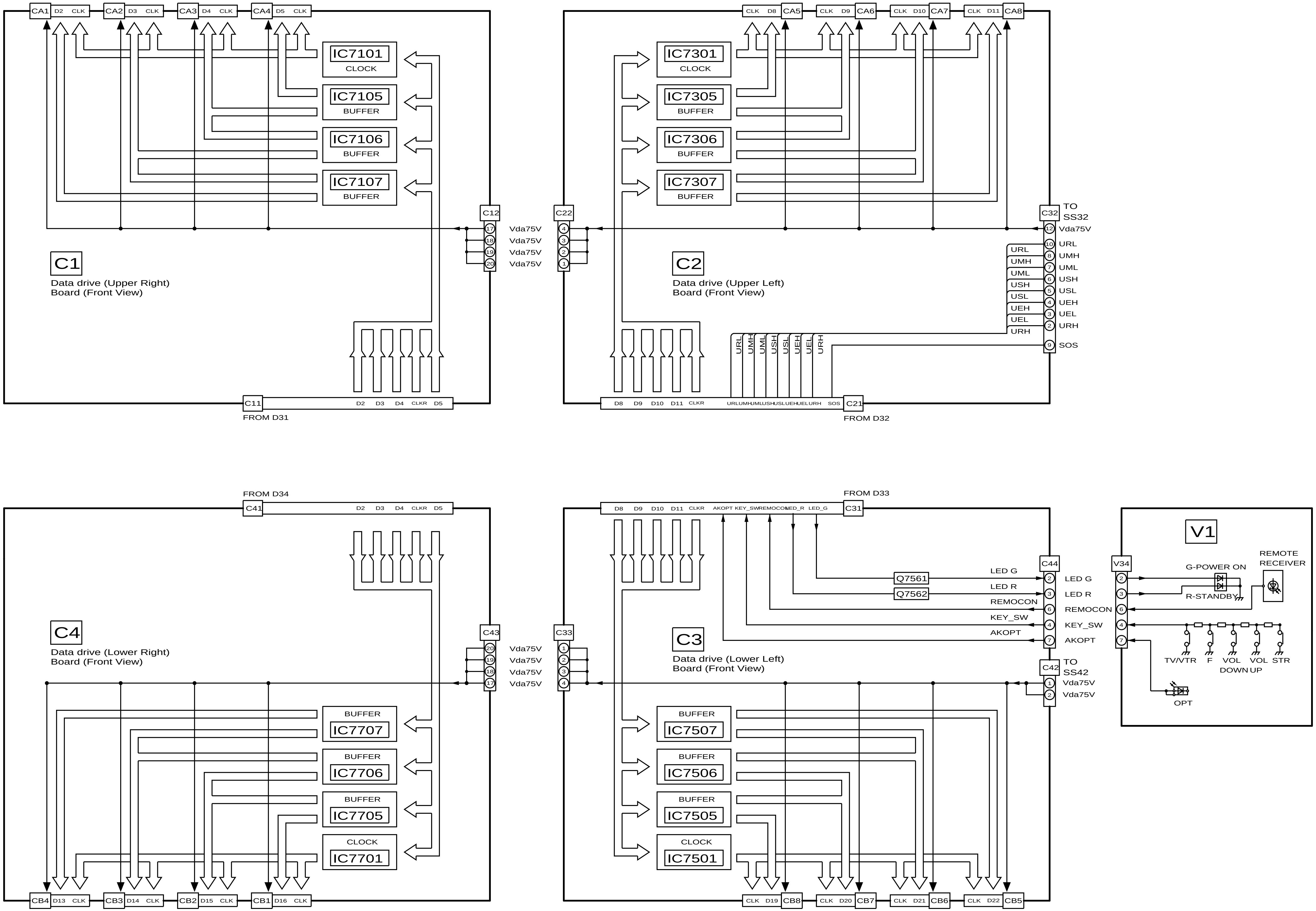
This chassis series have special function and operation setting facility called Option Menu. This Option Menu is useful for special function required customers. This should be set at the installation stage. The end user could not set or change these because of hidden On screen menu.

Option menus	default setting	Contents
Off-timer function	Enable	Off-timer operation Enable/Disable.
On Screen display	On	Enable/Disable to display input mode indication after power on and no signal indication.
Initial Input	Off	Sets the initial input mode when the power is turned on . Allow input mode selection while power is on.
Initial VOL. level	Off	Sets the initial volume level when the power is turned on. Allow Volume control while power is on.
Maximum VOL. Level	Off	Sets the maximum volume to desired level. Volume cannot exceed this level.
INPUT lock	Off	Fixes the input mode to AV, Component/RGB or PC. Can not change input mode by input selection key.
Button lock	Off	Enable/Disable front operation buttons (Input and/or volume up/down)
Studio W/B	Off	Set warm mode color temperature to 3,200 Kelvin.
Remocon User Level	Off	Remote key invalidation. Off : Valid key is all key of remote. User1 : Valid key are only Stand-by (ON/OFF), Input, Status, Surround, Sound mute On/Off, and volume adjustment. User2 : Valid key is only Stand-by (ON/OFF). User3 : All keys are null and void
ID Select	0 to 100	Set ID number from 001 to 100.
Remote ID	Off	Remote ID function On/Off. (While the Remote ID on, standard remote function can not control the unit.)
Serial	Off	Serial ID function On/Off
Slot power	Off	Sets the slot power mode the power is turned on. Allow Optional Terminal Board insert Slots while power is on.

Note :

How to set Remocon User Level and Remote ID off

1. Access service mode (CAT-mode) and press SET UP key on remote.
2. Accsess option menu.
3. Change Remocon User Level and/ or Remote ID set to Off.


CA1 D2 CLK
CA2 D3 CLK
CA3 D4 CLK
CA4 D5 CLK
IC7101 CLOCK
IC7105 BUFFER
IC7106 BUFFER
IC7107 BUFFER
C12
17 Vda75V
18 Vda75V
19 Vda75V
20 Vda75V
C1
Data drive (Upper Right)
Board (Front View)
C11 D2 D3 D4 CLKR D5
FROM D31
CLK D8 CA5
CLK D9 CA6
CLK D10 CA7
CLK D11 CA8
IC7301 CLOCK
IC7305 BUFFER
IC7306 BUFFER
IC7307 BUFFER
C22
4 3 2 1
C2
Data drive (Upper Left)
Board (Front View)
C32
TO SS32
12 Vda75V
10 URL
8 UMH
7 UML
6 USH
5 USL
4 UEH
3 UEL
2 URH
9 SOS
URL UMH UML USH USL UEH UEL URH
D8 D9 D10 D11 CLKR URLUMHUMLUSHUSLUEHUELURH SOS C21
FROM D32
FROM D34
C41 D2 D3 D4 CLKR D5
C43
20 Vda75V
19 Vda75V
18 Vda75V
17 Vda75V
C4
Data drive (Lower Right)
Board (Front View)
BUFFER IC7707
BUFFER IC7706
BUFFER IC7705
CLOCK IC7701
CB4 D13 CLK
CB3 D14 CLK
CB2 D15 CLK
CB1 D16 CLK
FROM D33
D8 D9 D10 D11 CLKR AKOPT KEY_SW REMOCON LED_R LED_G C31
C33
1 2 3 4
C44
LED G Q7561 2 LED G
LED R Q7562 3 LED R
REMOCON 6 REMOCON
KEY_SW 4 KEY_SW
AKOPT 7 AKOPT
C3
Data drive (Lower Left)
Board (Front View)
C42
TO SS42
1 Vda75V
2 Vda75V
BUFFER IC7507
BUFFER IC7506
BUFFER IC7505
CLOCK IC7501
CLK D19 CB8
CLK D20 CB7
CLK D21 CB6
CLK D22 CB5
V1
V34
2 3 6 4 7
G-POWER ON
R-STANDBY
REMOTE RECEIVER
TV/VTR F VOL DOWN VOL UP STR
OPT

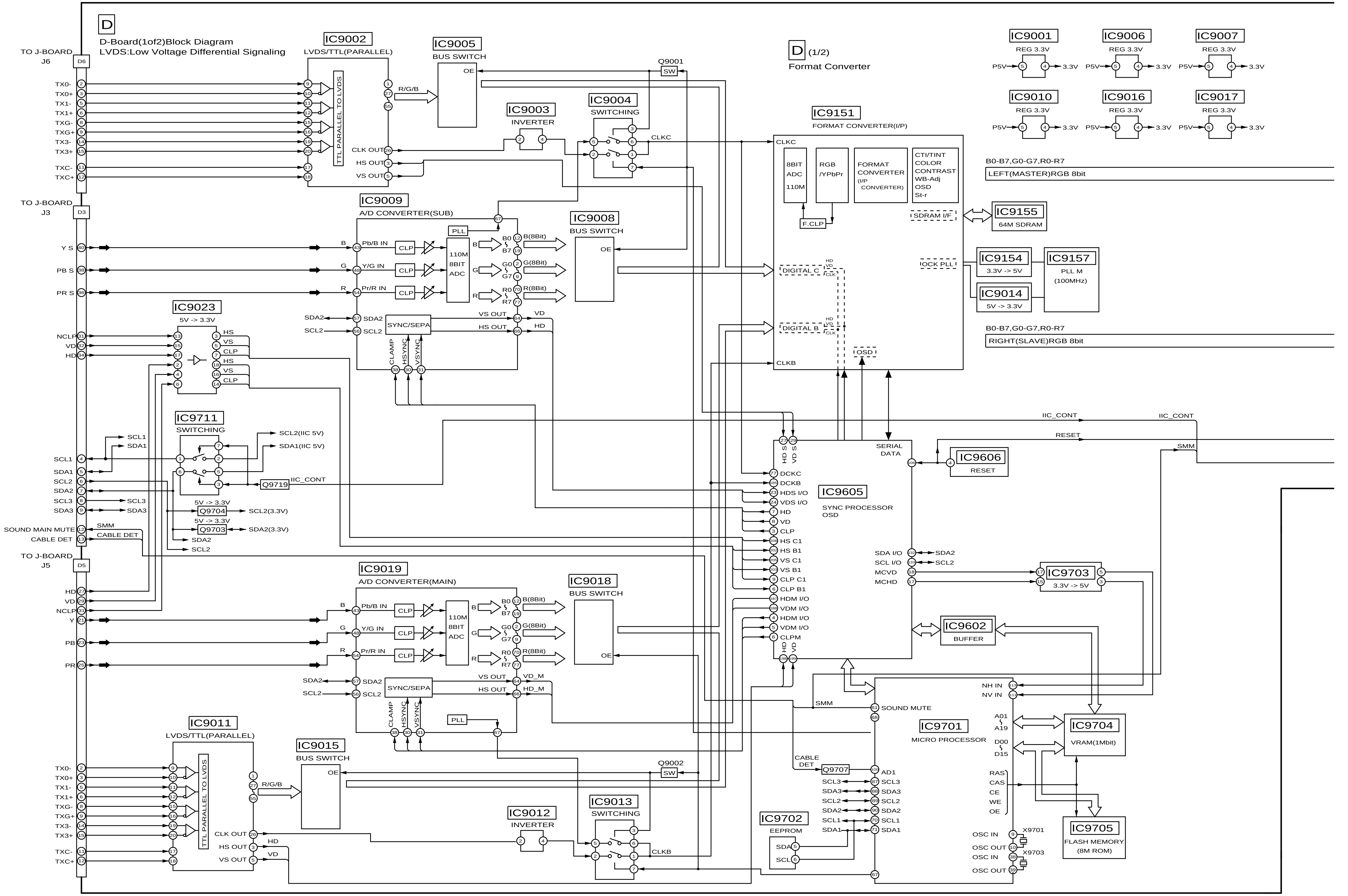
TH-42PHD6/TH-42PHW6
C1-BOARD, C2-BOARD, C3-BOARD, C4-BOARD and V1-BOARD Block Diagram

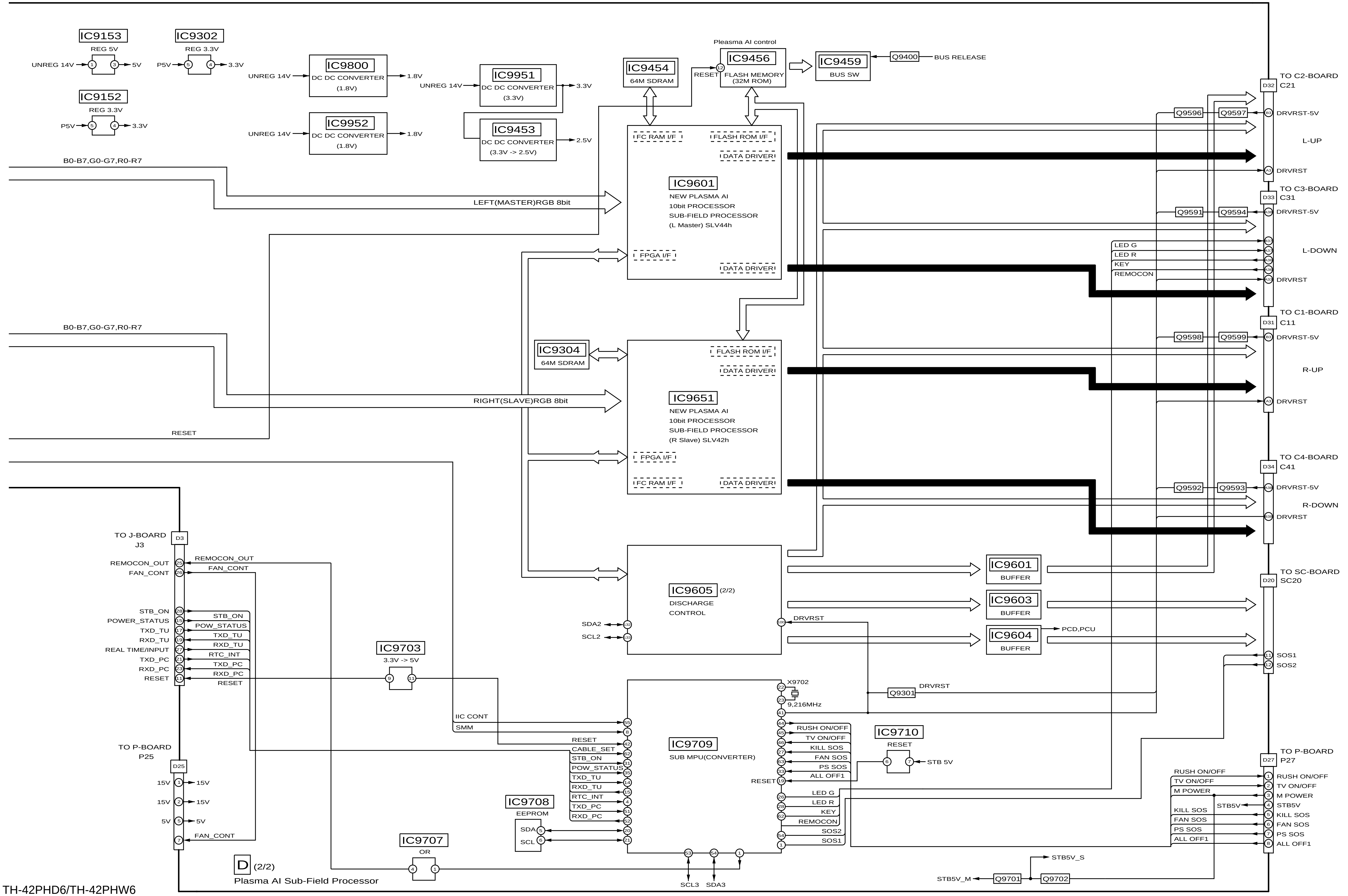
TH-42PHD6/TH-42PHW6
C1-BOARD, C2-BOARD, C3-BOARD, C4-BOARD and V1-BOARD Block Diagram

D

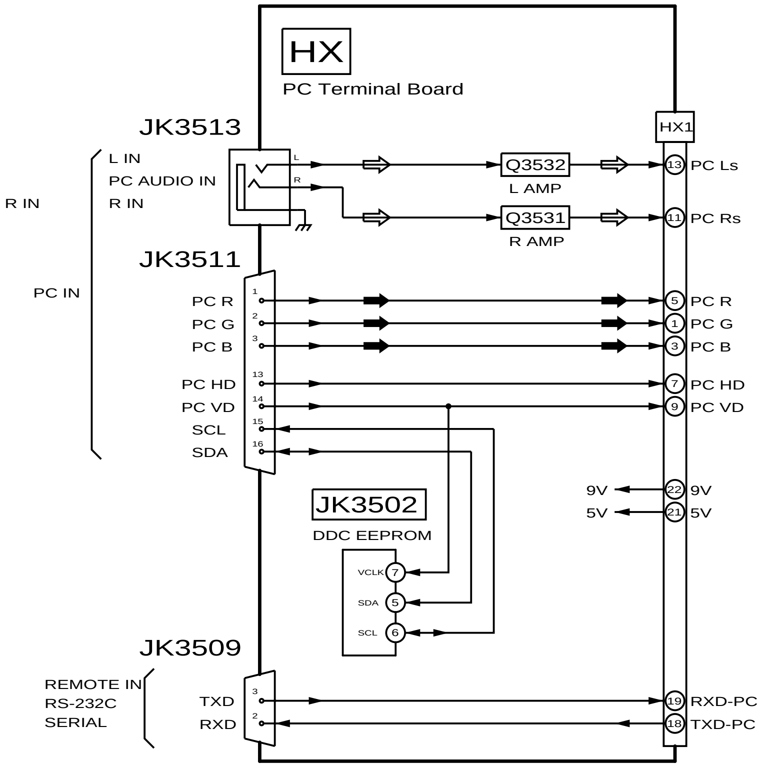
D-Board(1of2)Block Diagram

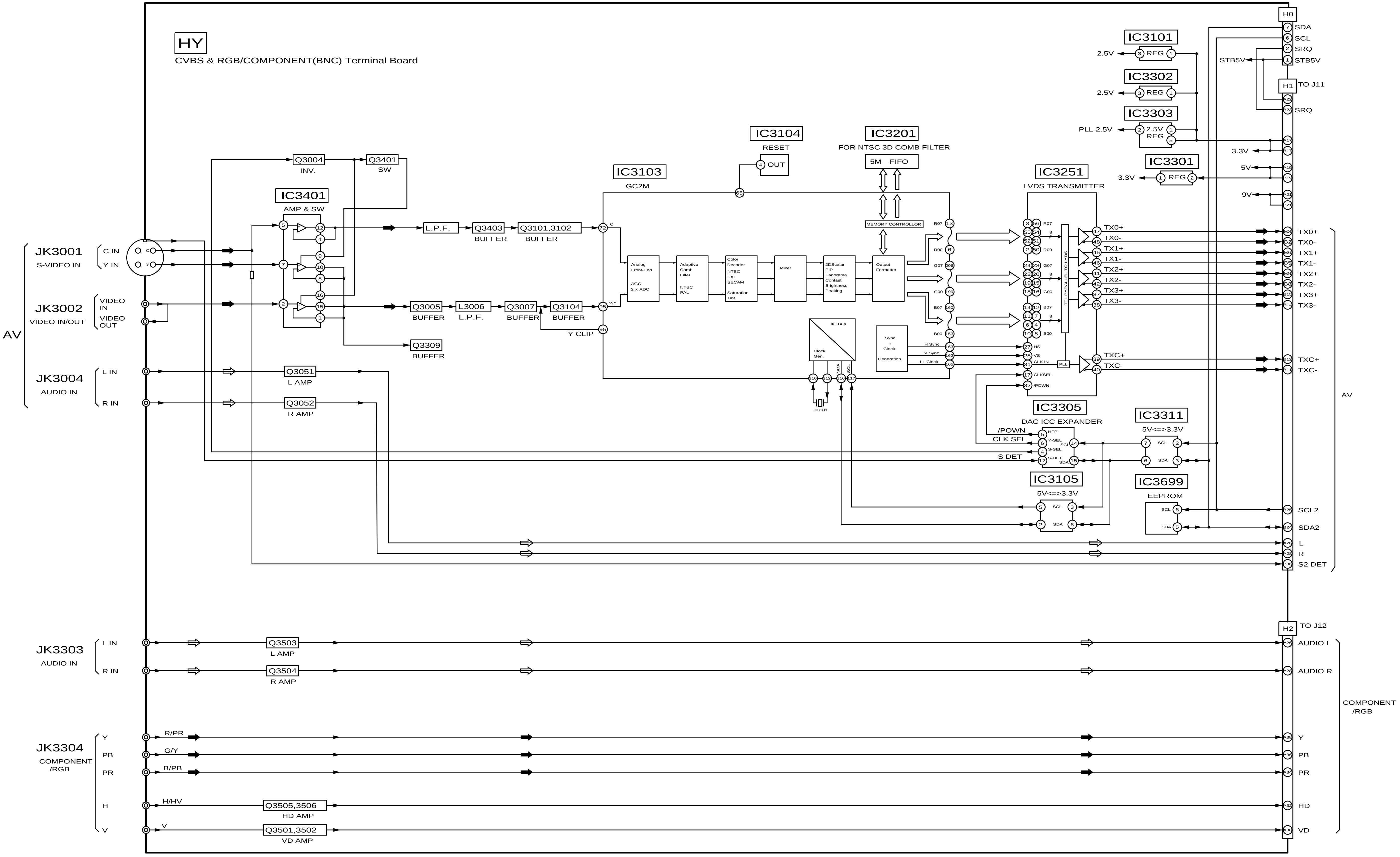
LVDS:Low Voltage Differential Signaling

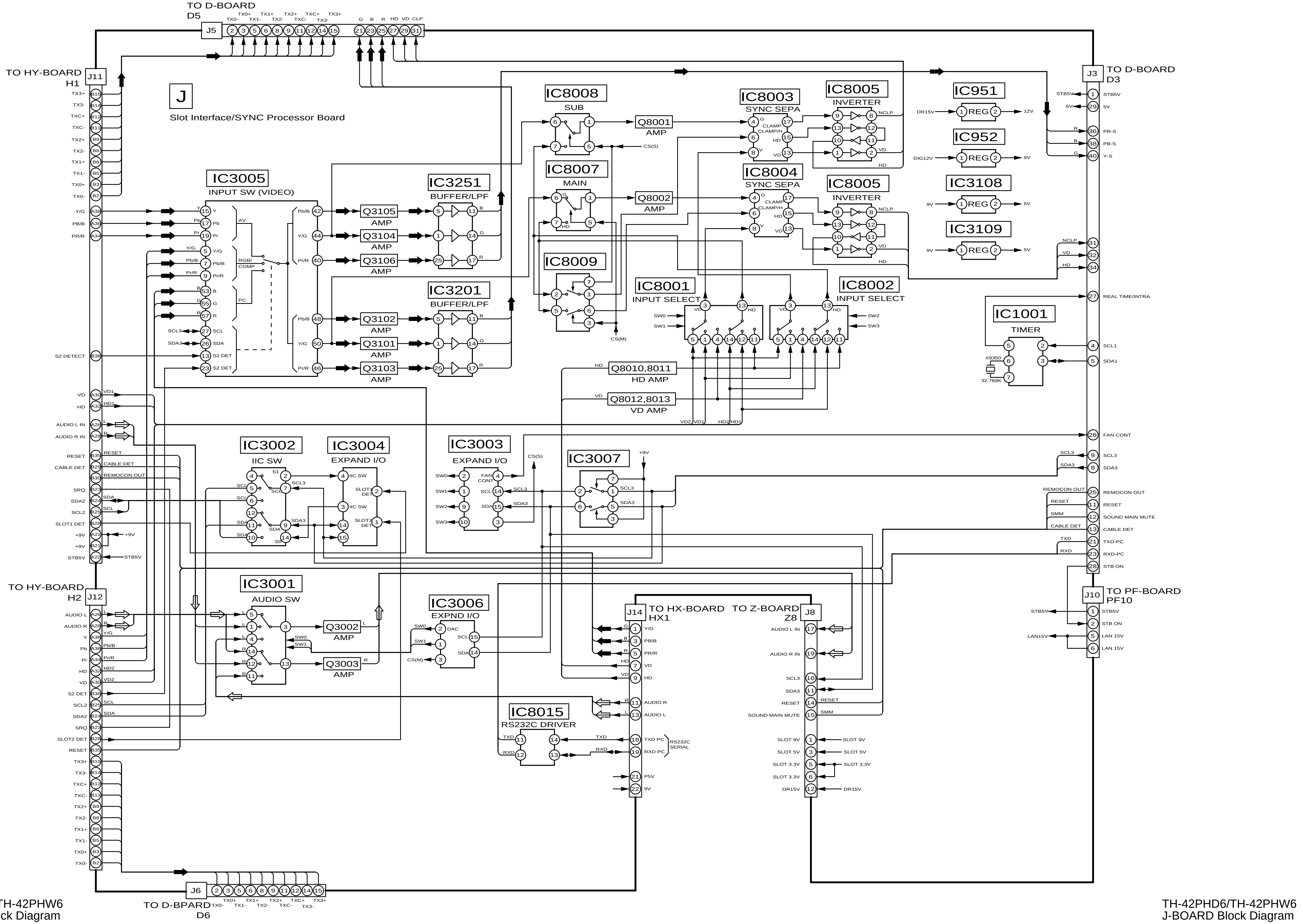

TO J-BOARD J6
D6
TX0-
TX0+
TX1-
TX1+
TXG-
TXG+
TX3-
TX3+
TXC-
TXC+
IC9002
LVDS/TTL(PARALLEL)
TTL PARALLEL TO LVDS
CLK OUT
HS OUT
VS OUT
R/G/B
IC9005
BUS SWITCH
OE
Q9001
SW
IC9003
INVERTER
IC9004
SWITCHING
CLKC
D (1/2)
Format Converter
IC9151
FORMAT CONVERTER(I/P)
8BIT
ADC
110M
RGB
/YPbPr
FORMAT
CONVERTER
(I/P
CONVERTER)
CTI/TINT
COLOR
CONTRAST
WB-Adj
OSD
St-r
F.CLP
SDRAM I/F
DIGITAL C
DIGITAL B
HD
VD
CLK
OCK PLL
OSD
CLKB
IC9155
64M SDRAM
IC9154
3.3V -> 5V
IC9014
5V -> 3.3V
IC9157
PLL M
(100MHz)
B0-B7,G0-G7,R0-R7
LEFT(MASTER)RGB 8bit
B0-B7,G0-G7,R0-R7
RIGHT(SLAVE)RGB 8bit
IC9001
IC9006
IC9007
IC9010
IC9016
IC9017
REG 3.3V
P5V
3.3V
TO J-BOARD J3
D3
Y S
PB S
PR S
IC9009
A/D CONVERTER(SUB)
PLL
Pb/B IN
Y/G IN
Pr/R IN
CLP
110M
8BIT
ADC
B0 ~ B7
G0 ~ G7
R0 ~ R7
B(8Bit)
G(8Bit)
R(8Bit)
SDA2
SCL2
SYNC/SEPA
VS OUT
HS OUT
VD
HD
CLAMP
HSYNC
VSYNC
IC9008
BUS SWITCH
OE
IC9023
5V -> 3.3V
NCLP
VD
HD
HS
VS
CLP
IC9711
SWITCHING
SCL1
SDA1
SCL2(IIC 5V)
SDA1(IIC 5V)
SCL1
SDA1
SCL2
SDA2
SCL3
SDA3
Q9719
IIC_CONT
5V -> 3.3V
Q9704
SCL2(3.3V)
5V -> 3.3V
Q9703
SDA2(3.3V)
SOUND MAIN MUTE
CABLE DET
SMM
CABLE DET
SDA2
SCL2
SCL3
SDA3
TO J-BOARD J5
D5
HD
VD
NCLP
Y
PB
PR
IC9019
A/D CONVERTER(MAIN)
SYNC/SEPA
VD_M
HD_M
PLL
IC9018
BUS SWITCH
OE
IC9011
LVDS/TTL(PARALLEL)
TTL PARALLEL TO LVDS
CLK OUT
HS OUT
VS OUT
HD
VD
R/G/B
IC9015
BUS SWITCH
OE
Q9002
SW
IC9012
INVERTER
IC9013
SWITCHING
CLKB
IIC_CONT
IIC_CONT
RESET
SMM
SERIAL
DATA
IC9606
RESET
IC9605
SYNC PROCESSOR
OSD
HD S
VD S
DCKC
DCKB
HDS I/O
VDS I/O
HD
VD
CLP
HS C1
HS B1
VS C1
VS B1
CLP C1
CLP B1
HDM I/O
VDM I/O
HDM I/O
VDM I/O
CLPM
HD
VD
SDA I/O
SCL I/O
MCVD
MCHD
SDA2
SCL2
IC9703
3.3V -> 5V
IC9602
BUFFER
IC9701
MICRO PROCESSOR
SMM
SOUND MUTE
NH IN
NV IN
CABLE DET
Q9707
AD1
SCL3
SDA3
SCL2
SDA2
SCL1
SDA1
IC9702
EEPROM
SDA
SCL
A01 ~ A19
D00 ~ D15
RAS
CAS
CE
WE
OE
OSC IN
OSC OUT
OSC IN
OSC OUT
X9701
X9703
IC9704
VRAM(1Mbit)
IC9705
FLASH MEMORY
(8M ROM)


IC9153
REG 5V
UNREG 14V
1
3
5V
IC9302
REG 3.3V
P5V
5
4
3.3V
IC9152
REG 3.3V
P5V
5
4
3.3V
IC9800
DC DC CONVERTER
(1.8V)
UNREG 14V
1.8V
IC9952
DC DC CONVERTER
(1.8V)
UNREG 14V
1.8V
IC9951
DC DC CONVERTER
(3.3V)
UNREG 14V
3.3V
IC9453
DC DC CONVERTER
(3.3V -> 2.5V)
2.5V
IC9454
64M SDRAM
Pleasma AI control
IC9456
FLASH MEMORY
(32M ROM)
RESET
12
IC9459
BUS SW
Q9400
BUS RELEASE
B0-B7,G0-G7,R0-R7
LEFT(MASTER)RGB 8bit
FC RAM I/F
FLASH ROM I/F
DATA DRIVER
IC9601
NEW PLASMA AI
10bit PROCESSOR
SUB-FIELD PROCESSOR
(L Master) SLV44h
FPGA I/F
DATA DRIVER
B0-B7,G0-G7,R0-R7
RIGHT(SLAVE)RGB 8bit
RESET
IC9304
64M SDRAM
FLASH ROM I/F
DATA DRIVER
IC9651
NEW PLASMA AI
10bit PROCESSOR
SUB-FIELD PROCESSOR
(R Slave) SLV42h
FPGA I/F
FC RAM I/F
DATA DRIVER
TO C2-BOARD
D32
C21
Q9596
Q9597
DRVRST-5V
L-UP
DRVRST
TO C3-BOARD
D33
C31
Q9591
Q9594
DRVRST-5V
LED G
LED R
KEY
REMOCON
L-DOWN
DRVRST
TO C1-BOARD
D31
C11
Q9598
Q9599
DRVRST-5V
R-UP
DRVRST
TO C4-BOARD
D34
C41
Q9592
Q9593
DRVRST-5V
R-DOWN
DRVRST
IC9605 (2/2)
DISCHARGE
CONTROL
SDA2
SCL2
DRVRST
100
IC9601
BUFFER
IC9603
BUFFER
IC9604
BUFFER
PCD,PCL
TO SC-BOARD
D20
SC20
SOS1
SOS2
11
12
TO J-BOARD
J3
D3
REMOCON_OUT
25
FAN_CONT
26
STB_ON
28
POWER_STATUS
15
TXD_TU
17
RXD_TU
19
REAL TIME/INPUT
27
TXD_PC
21
RXD_PC
23
RESET
11
REMOCON_OUT
FAN_CONT
STB_ON
POW_STATUS
TXD_TU
RXD_TU
RTC_INT
TXD_PC
RXD_PC
RESET
IC9703
3.3V -> 5V
9
11
Q9301
DRVRST
X9702
22
23
9.216MHz
41
IIC CONT
SMM
55
8
RESET
42
CABLE_SET
62
STB_ON
31
POW_STATUS
35
TXD_TU
14
RXD_TU
13
RTC_INT
4
TXD_PC
51
RXD_PC
52
IC9709
SUB MPU(CONVERTER)
44
RUSH ON/OFF
45
TV ON/OFF
46
KILL SOS
27
FAN SOS
63
PS SOS
33
ALL OFF1
RESET
19
26
LED G
28
LED R
62
KEY
REMOCON
64
SOS2
1
SOS1
IC9710
RESET
6
7
STB 5V
TO P-BOARD
P25
D25
15V
1
15V
15V
2
15V
5V
5
5V
7
FAN_CONT
IC9708
EEPROM
SDA
5
20
SCL
6
21
IC9707
OR
4
1
53
54
1
SCL3
SDA3
TO P-BOARD
P27
D27
RUSH ON/OFF
TV ON/OFF
M POWER
STB5V
KILL SOS
FAN SOS
PS SOS
ALL OFF1
1
RUSH ON/OFF
2
TV ON/OFF
3
M POWER
4
STB5V
5
KILL SOS
6
FAN SOS
7
PS SOS
8
ALL OFF1
STB5V_S
STB5V_M
Q9701
Q9702
D (2/2)
Plasma AI Sub-Field Processor

TH-42PHD6/TH-42PHW6
D-BOARD (2 of 2) Block Diagram

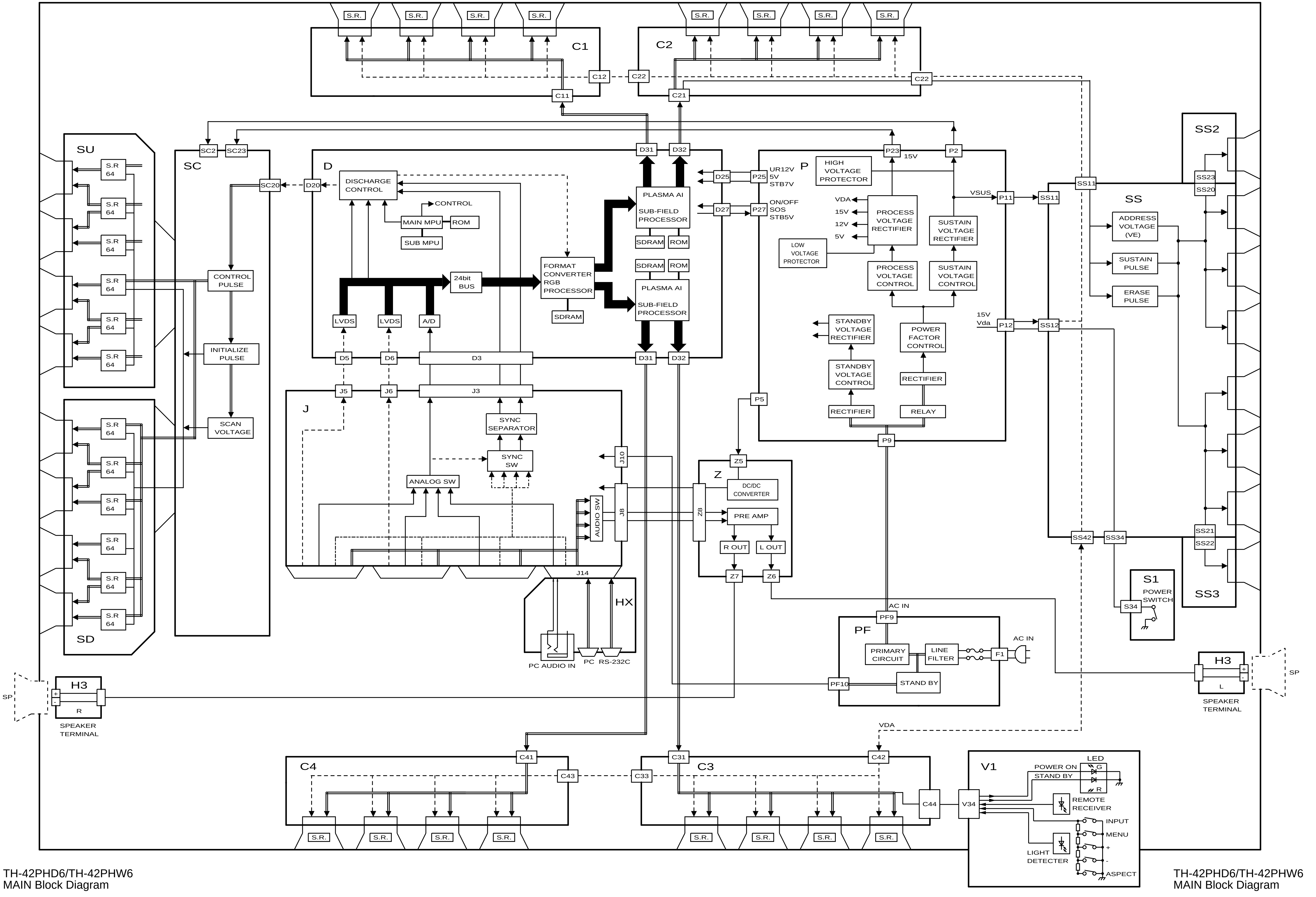

HX
PC Terminal Board
JK3513
L IN
PC AUDIO IN
R IN
R IN
L
R
Q3532
L AMP
Q3531
R AMP
HX1
13 PC Ls
11 PC Rs
JK3511
PC IN
PC R
PC G
PC B
PC HD
PC VD
SCL
SDA
1
2
3
13
14
15
16
5 PC R
1 PC G
3 PC B
7 PC HD
9 PC VD
9V
5V
22 9V
21 5V
JK3502
DDC EEPROM
VCLK 7
SDA 5
SCL 6
JK3509
REMOTE IN
RS-232C
SERIAL
TXD
RXD
3
2
19 RXD-PC
18 TXD-PC


HY
CVBS & RGB/COMPONENT(BNC) Terminal Board
AV
JK3001
S-VIDEO IN
C IN
Y IN
JK3002
VIDEO IN/OUT
VIDEO IN
VIDEO OUT
JK3004
AUDIO IN
L IN
R IN
IC3401
AMP & SW
Q3004
INV.
Q3401
SW
L.P.F.
Q3403
BUFFER
Q3101,3102
BUFFER
Q3005
BUFFER
L3006
L.P.F.
Q3007
BUFFER
Q3104
BUFFER
Y CLIP
Q3309
BUFFER
Q3051
L AMP
Q3052
R AMP
IC3103
GC2M
Analog Front-End
AGC
2 x ADC
Adaptive Comb Filter
NTSC
PAL
Color Decoder
NTSC
PAL
SECAM
Saturation
Tint
Mixer
2DScalar
PIP
Panorama
Contast
Brightness
Peaking
Output Formatter
IIC Bus
Clock Gen.
SDA
SCL
Sync + Clock Generation
H Sync
V Sync
LL Clock
X3101
IC3104
RESET
OUT
IC3201
FOR NTSC 3D COMB FILTER
5M FIFO
MEMORY CONTROLLOR
R07
R00
G07
G00
B07
B00
IC3251
LVDS TRANSMITTER
TTL PARALEL TO LVDS
PLL
HS
VS
CLK IN
CLKSEL
/PDWN
TX0+
TX0-
TX1+
TX1-
TX2+
TX2-
TX3+
TX3-
TXC+
TXC-
IC3101
REG
2.5V
IC3302
REG
2.5V
IC3303
2.5V REG
PLL 2.5V
IC3301
REG
3.3V
H0
SDA
SCL
SRQ
STB5V
STB5V
H1
TO J11
SRQ
3.3V
5V
9V
IC3305
DAC ICC EXPANDER
/POWN
CLK SEL
S DET
HFP
Y-SEL
S-SEL
S-DET
SCL
SDA
IC3311
5V<=>3.3V
SCL
SDA
IC3105
5V<=>3.3V
SCL
SDA
IC3699
EEPROM
SCL
SDA
SCL2
SDA2
L
R
S2 DET
AV
JK3303
AUDIO IN
L IN
R IN
Q3503
L AMP
Q3504
R AMP
H2
TO J12
AUDIO L
AUDIO R
JK3304
COMPONENT /RGB
Y
PB
PR
H
V
R/PR
G/Y
B/PB
H/HV
V
Q3505,3506
HD AMP
Q3501,3502
VD AMP
Y
PB
PR
HD
VD
COMPONENT /RGB


J
Slot Interface/SYNC Processor Board
TO D-BOARD D5
J5
TX0- TX0+ TX1- TX1+ TX2- TX2+ TXC- TXC+ TX3- TX3+
G B R HD VD CLP
TO HY-BOARD H1
J11
TX3+ TX3- TXC+ TXC- TX2+ TX2- TX1+ TX1- TX0+ TX0-
Y/G PB/B PR/R
S2 DETECT
VD HD
AUDIO L IN
AUDIO R IN
RESET
CABLE DET
REMOCON OUT
SRQ
SDA2
SCL2
SLOT1 DET
+9V
STB5V
IC3005
INPUT SW (VIDEO)
AV
RGB/COMP
PC
SCL3 SDA3
S2 DET
IC3251
BUFFER/LPF
IC3201
BUFFER/LPF
Q3105 AMP
Q3104 AMP
Q3106 AMP
Q3102 AMP
Q3101 AMP
Q3103 AMP
IC8008
SUB
IC8007
MAIN
IC8009
CS(S)
CS(M)
Q8001 AMP
Q8002 AMP
IC8003
SYNC SEPA
IC8004
SYNC SEPA
CLAMP
CLAMP/H
IC8005
INVERTER
NCLP
IC8001
INPUT SELECT
IC8002
INPUT SELECT
SW0 SW1 SW2 SW3
Q8010,8011 HD AMP
Q8012,8013 VD AMP
VD2 VD1 HD2 HD1
IC951 REG
IC952 REG
IC3108 REG
IC3109 REG
DR15V 12V
DIG12V 9V
9V 5V
IC1001
TIMER
X9350
32.768K
TO D-BOARD D3
J3
STB5V
5V
PR-S
PB-S
Y-S
NCLP
VD
HD
REAL TIME/INTRA
SCL1
SDA1
FAN CONT
SCL3
SDA3
REMOCON OUT
RESET
SOUND MAIN MUTE
CABLE DET
TXD-PC
RXD-PC
STB ON
IC3002
IIC SW
IC3004
EXPAND I/O
SLOT1 DET
SLOT2 DET
IC3003
EXPAND I/O
FAN CONT
IC3007
+9V
TO HY-BOARD H2
J12
AUDIO L
AUDIO R
Y Pb Pr
HD VD
S2 DET
SCL2 SDA2
SRQ
SLOT2 DET
RESET
IC3001
AUDIO SW
Q3002 AMP
Q3003 AMP
IC3006
EXPND I/O
DAC
IC8015
RS232C DRIVER
TXD RXD
TO HX-BOARD HX1
J14
Y/G PB/B PR/R VD HD
AUDIO R
AUDIO L
TXD PC
RXD PC
RS232C SERIAL
P5V
9V
TO Z-BOARD Z8
J8
AUDIO L IN
AUDIO R IN
SCL3
SDA3
RESET
SOUND MAIN MUTE
SLOT 9V
SLOT 5V
SLOT 3.3V
DR15V
TO PF-BOARD PF10
J10
STB5V
STB ON
LAN15V
LAN 15V
J6
TO D-BPARD D6
TX0- TX0+ TX1- TX1+ TX2- TX2+ TXC- TXC+ TX3- TX3+

TH-42PHD6/TH-42PHW6
J-BOARD Block Diagram

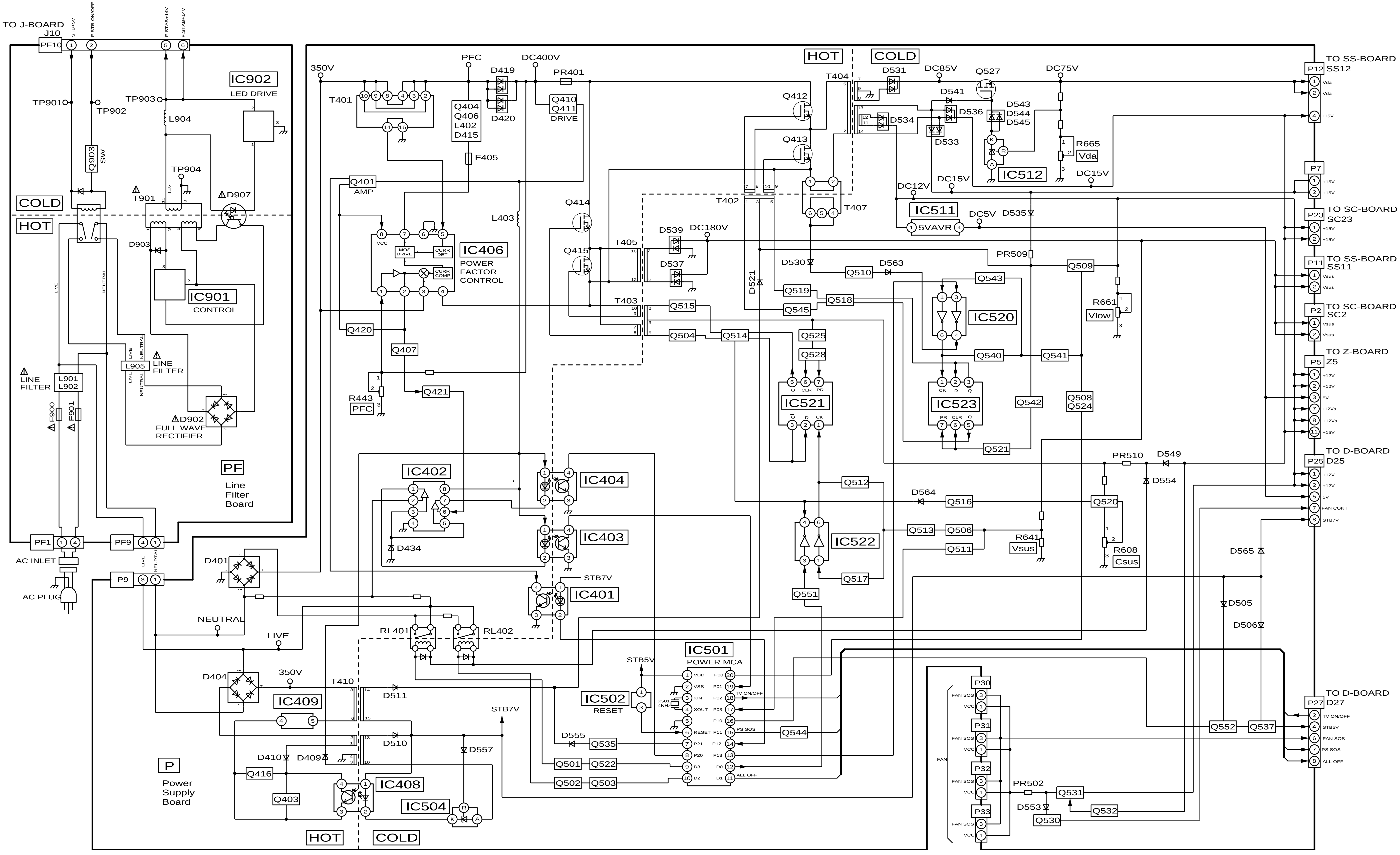
TH-42PHD6/TH-42PHW6
J-BOARD Block Diagram



C1
C2
C3
C4
C11
C12
C21
C22
C31
C33
C41
C42
C43
C44
S.R.
SU
SD
S.R 64
SC
SC2
SC23
SC20
CONTROL PULSE
INITIALIZE PULSE
SCAN VOLTAGE
D
D20
D25
D27
D31
D32
D5
D6
D3
DISCHARGE CONTROL
CONTROL
MAIN MPU
ROM
SUB MPU
24bit BUS
FORMAT CONVERTER RGB PROCESSOR
SDRAM
PLASMA AI SUB-FIELD PROCESSOR
LVDS
A/D
J
J5
J6
J3
J10
J8
J14
SYNC SEPARATOR
SYNC SW
ANALOG SW
AUDIO SW
HX
PC AUDIO IN
PC
RS-232C
P
P2
P5
P9
P11
P12
P23
P25
P27
UR12V
5V
STB7V
ON/OFF
SOS
STB5V
15V
VSUS
Vda
HIGH VOLTAGE PROTECTOR
LOW VOLTAGE PROTECTOR
VDA
12V
PROCESS VOLTAGE RECTIFIER
PROCESS VOLTAGE CONTROL
SUSTAIN VOLTAGE RECTIFIER
SUSTAIN VOLTAGE CONTROL
STANDBY VOLTAGE RECTIFIER
STANDBY VOLTAGE CONTROL
POWER FACTOR CONTROL
RECTIFIER
RELAY
Z
Z5
Z6
Z7
Z8
DC/DC CONVERTER
PRE AMP
R OUT
L OUT
SS
SS2
SS3
SS11
SS12
SS20
SS21
SS22
SS23
SS34
SS42
ADDRESS VOLTAGE (VE)
SUSTAIN PULSE
ERASE PULSE
S1
S34
POWER SWITCH
PF
PF9
PF10
F1
AC IN
PRIMARY CIRCUIT
LINE FILTER
STAND BY
H3
R
L
SP
+
-
SPEAKER TERMINAL
V1
V34
LED
POWER ON
STAND BY
G
R
REMOTE RECEIVER
INPUT
MENU
+
-
ASPECT
LIGHT DETECTER

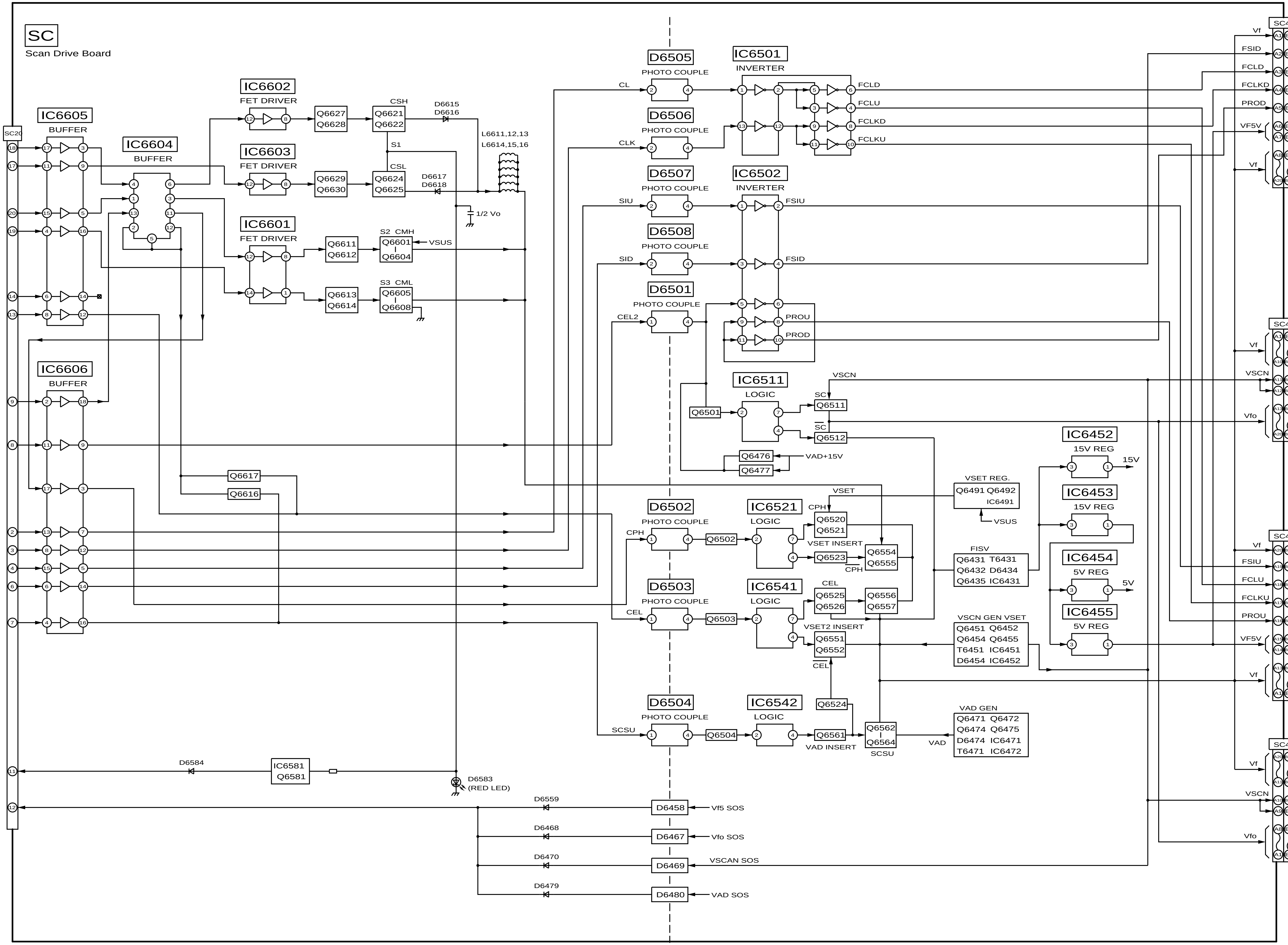
TH-42PHD6/TH-42PHW6
MAIN Block Diagram

TH-42PHD6/TH-42PHW6
MAIN Block Diagram


TO J-BOARD
J10
PF10
STB+5V
F-STB ON/OFF
F-STAB+14V
F-STAB+14V
IC902
LED DRIVE
TP901
TP902
TP903
L904
Q903
SW
TP904
T901
D907
COLD
HOT
D903
IC901
CONTROL
LIVE
NEUTRAL
L905
LINE FILTER
L901
L902
F900
F901
D902
FULL WAVE RECTIFIER
PF
Line Filter Board
PF1
PF9
AC INLET
AC PLUG
P9
350V
PFC
DC400V
PR401
D419
D420
T401
Q404
Q406
L402
D415
F405
Q410
Q411
DRIVE
Q401
AMP
IC406
POWER FACTOR CONTROL
VCC
MOS DRIVE
CURR DET
CURR COMP
L403
Q420
Q407
R443
PFC
Q421
Q414
Q415
T405
T403
D539
DC180V
D537
HOT
COLD
T404
Q412
Q413
T402
T407
D531
DC85V
Q527
DC75V
D541
D536
D534
D533
D543
D544
D545
IC512
R665
Vda
DC15V
DC12V
DC15V
IC511
5VAVR
DC5V
D535
D530
D563
D521
Q510
Q519
Q518
Q545
Q515
Q504
Q514
Q525
Q528
IC521
IC520
Q543
Q540
Q541
IC523
Q542
Q521
PR509
Q509
R661
Vlow
Q508
Q524
PR510
D549
D554
IC402
D434
IC404
IC403
IC401
STB7V
D401
NEUTRAL
LIVE
RL401
RL402
D404
350V
T410
D511
D510
IC409
D410
D409
Q416
Q403
IC408
IC504
D557
STB7V
P
Power Supply Board
HOT
COLD
IC501
POWER MCA
STB5V
IC502
RESET
X501 4NHz
VDD
VSS
XIN
XOUT
RESET
P21
P20
D3
D2
P00
P01
TV ON/OFF
P02
P03
P10
P11
PS SOS
P12
P13
D0
D1
ALL OFF
D555
Q535
Q501
Q522
Q502
Q503
Q544
Q512
D564
Q516
Q520
IC522
Q513
Q506
Q511
Q517
Q551
R641
Vsus
R608
Csus
D565
D505
D506
P30
P31
P32
P33
FAN SOS
VCC
FAN
PR502
Q531
D553
Q532
Q530
Q552
Q537
TO SS-BOARD
P12
SS12
Vda
Vda
+15V
P7
+15V
+15V
TO SC-BOARD
P23
SC23
+15V
+15V
TO SS-BOARD
P11
SS11
Vsus
Vsus
TO SC-BOARD
P2
SC2
Vsus
Vsus
TO Z-BOARD
P5
Z5
+12V
+12V
5V
+12Vs
+12Vs
+15V
TO D-BOARD
P25
D25
+12V
+12V
5V
FAN CONT
STB7V
TO D-BOARD
P27
D27
TV ON/OFF
STB5V
FAN SOS
PS SOS
ALL OFF

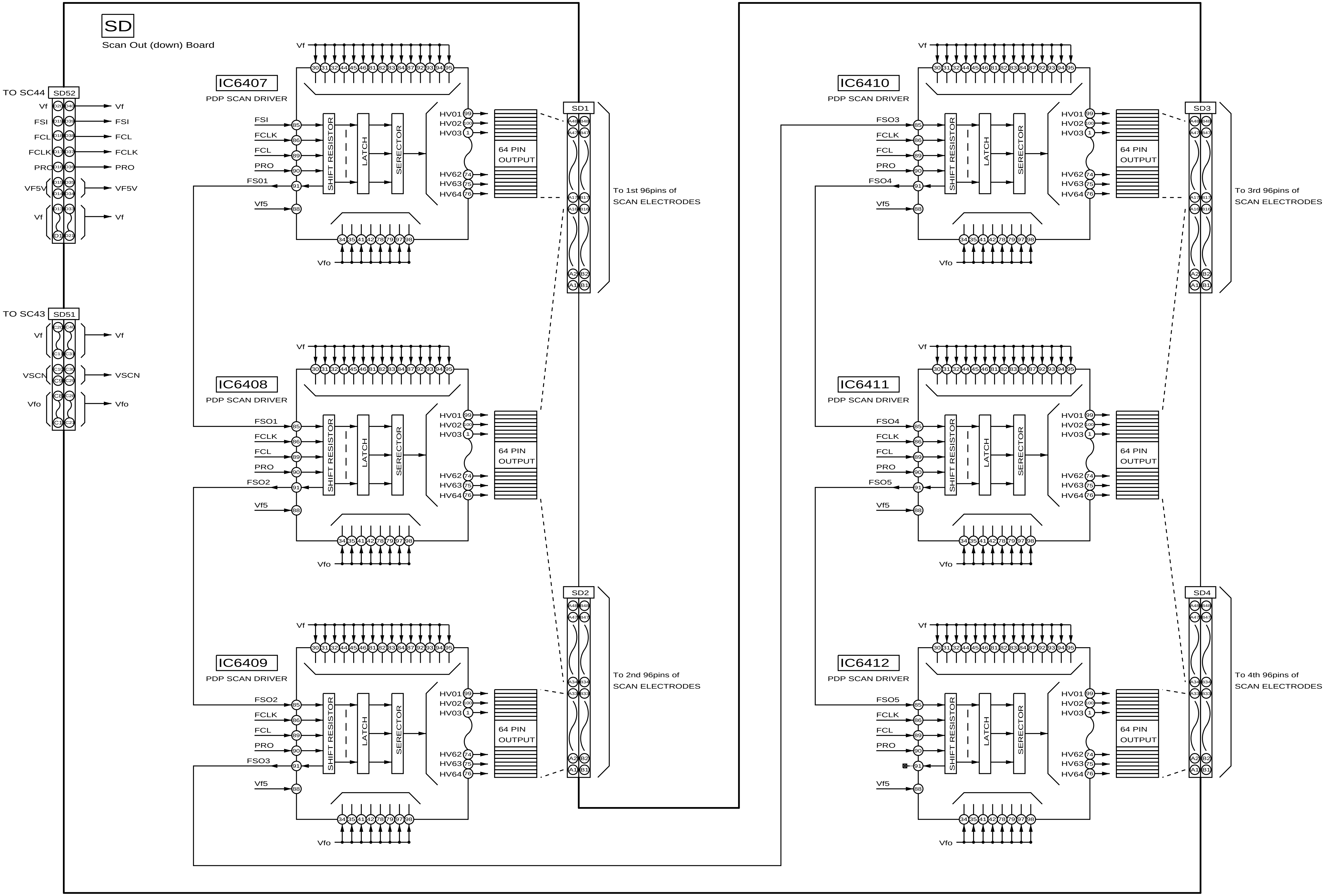
TH-42PHD6/TH-42PHW6
POWER Block Diagram

TH-42PHD6/TH-42PHW6
POWER Block Diagram

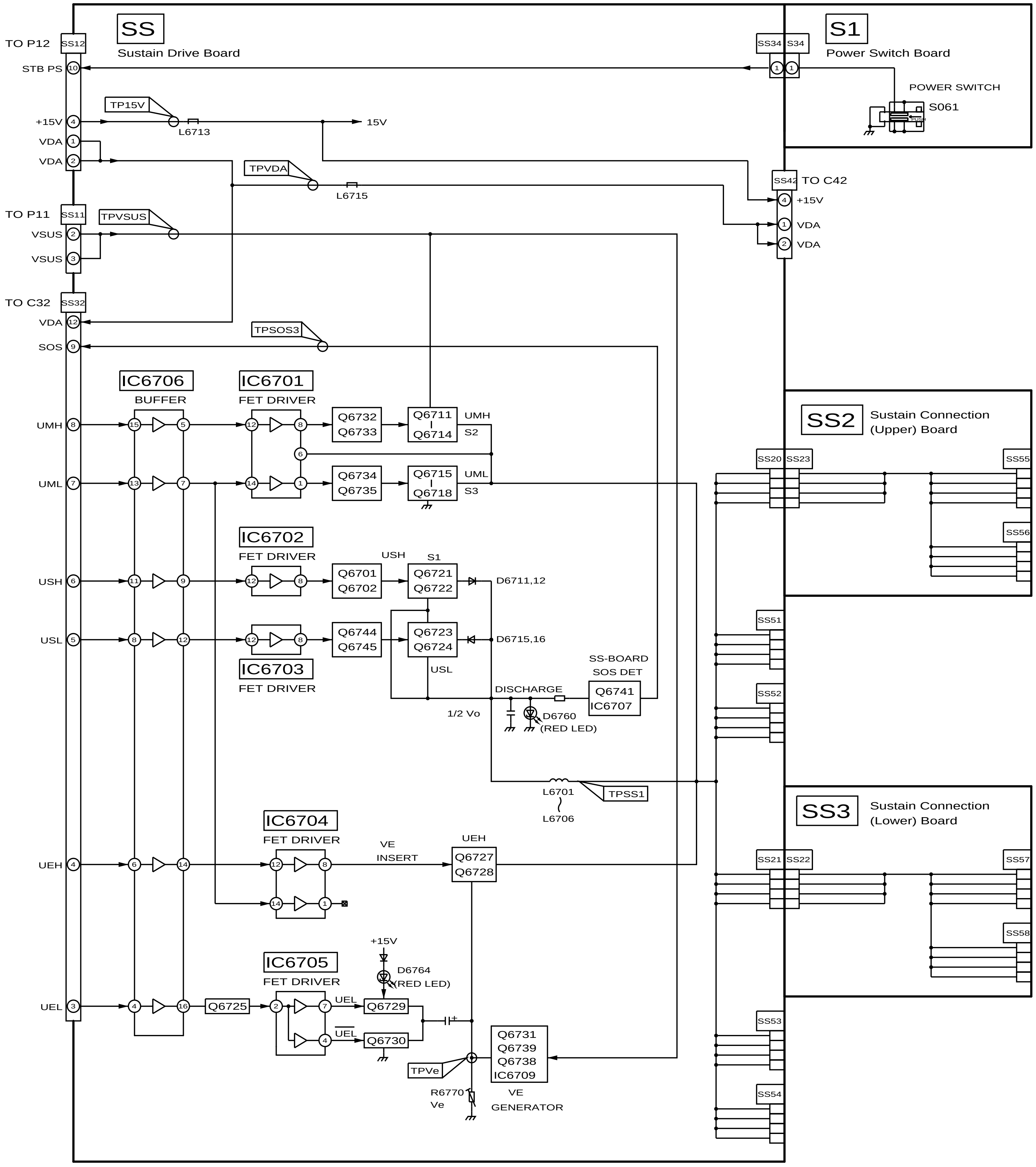

SC
Scan Drive Board
TO D20
SC20
CSH
CSL
CMH
CML
CEH
CEL
CPH
CEL2
CL
CLK
SIU
SID
SCSU
SOS1
SOS2
IC6605
BUFFER
IC6606
BUFFER
IC6604
BUFFER
IC6602
FET DRIVER
IC6603
FET DRIVER
IC6601
FET DRIVER
Q6627
Q6628
Q6629
Q6630
Q6611
Q6612
Q6613
Q6614
CSH
Q6621
Q6622
S1
CSL
Q6624
Q6625
D6615
D6616
D6617
D6618
L6611,12,13
L6614,15,16
1/2 Vo
S2 CMH
Q6601
Q6604
VSUS
S3 CML
Q6605
Q6608
Q6617
Q6616
IC6581
Q6581
D6584
D6583
(RED LED)
D6559
D6468
D6470
D6479
D6458
D6467
D6469
D6480
Vf5 SOS
Vfo SOS
VSCAN SOS
VAD SOS
D6505
PHOTO COUPLE
D6506
PHOTO COUPLE
D6507
PHOTO COUPLE
D6508
PHOTO COUPLE
D6501
PHOTO COUPLE
CL
CLK
SIU
SID
CEL2
IC6501
INVERTER
IC6502
INVERTER
FCLD
FCLU
FCLKD
FCLKU
FSIU
FSID
PROU
PROD
IC6511
LOGIC
Q6501
SC
Q6511
SC
Q6512
VSCN
Q6476
Q6477
VAD+15V
D6502
PHOTO COUPLE
CPH
Q6502
IC6521
LOGIC
CPH
Q6520
Q6521
VSET
VSET INSERT
Q6523
CPH
Q6554
Q6555
D6503
PHOTO COUPLE
CEL
Q6503
IC6541
LOGIC
CEL
Q6525
Q6526
Q6556
Q6557
VSET2 INSERT
Q6551
Q6552
CEL
Q6524
D6504
PHOTO COUPLE
SCSU
Q6504
IC6542
LOGIC
Q6561
VAD INSERT
Q6562
Q6564
SCSU
VAD
VSET REG.
Q6491 Q6492
IC6491
VSUS
FISV
Q6431 T6431
Q6432 D6434
Q6435 IC6431
VSCN GEN VSET
Q6451 Q6452
Q6454 Q6455
T6451 IC6451
D6454 IC6452
VAD GEN
Q6471 Q6472
Q6474 Q6475
D6474 IC6471
T6471 IC6472
IC6452
15V REG
15V
IC6453
15V REG
IC6454
5V REG
5V
IC6455
5V REG
SC44
TO SD52
Vf
FSID
FCLD
FCLKD
PROD
VF5V
Vf
SC43
TO SD51
Vf
VSCN
VSCN
Vfo
SC41
TO SU51
Vf
FSIU
FCLU
FCLKU
PROU
VF5V
Vf
SC42
TO SU52
Vf
VSCN
VSCN
Vfo

TH-42PHD6/TH-42PHW6 SC-BOARD Block Diagram

TH-42PHD6/TH-42PHW6 SC-BOARD Block Diagram

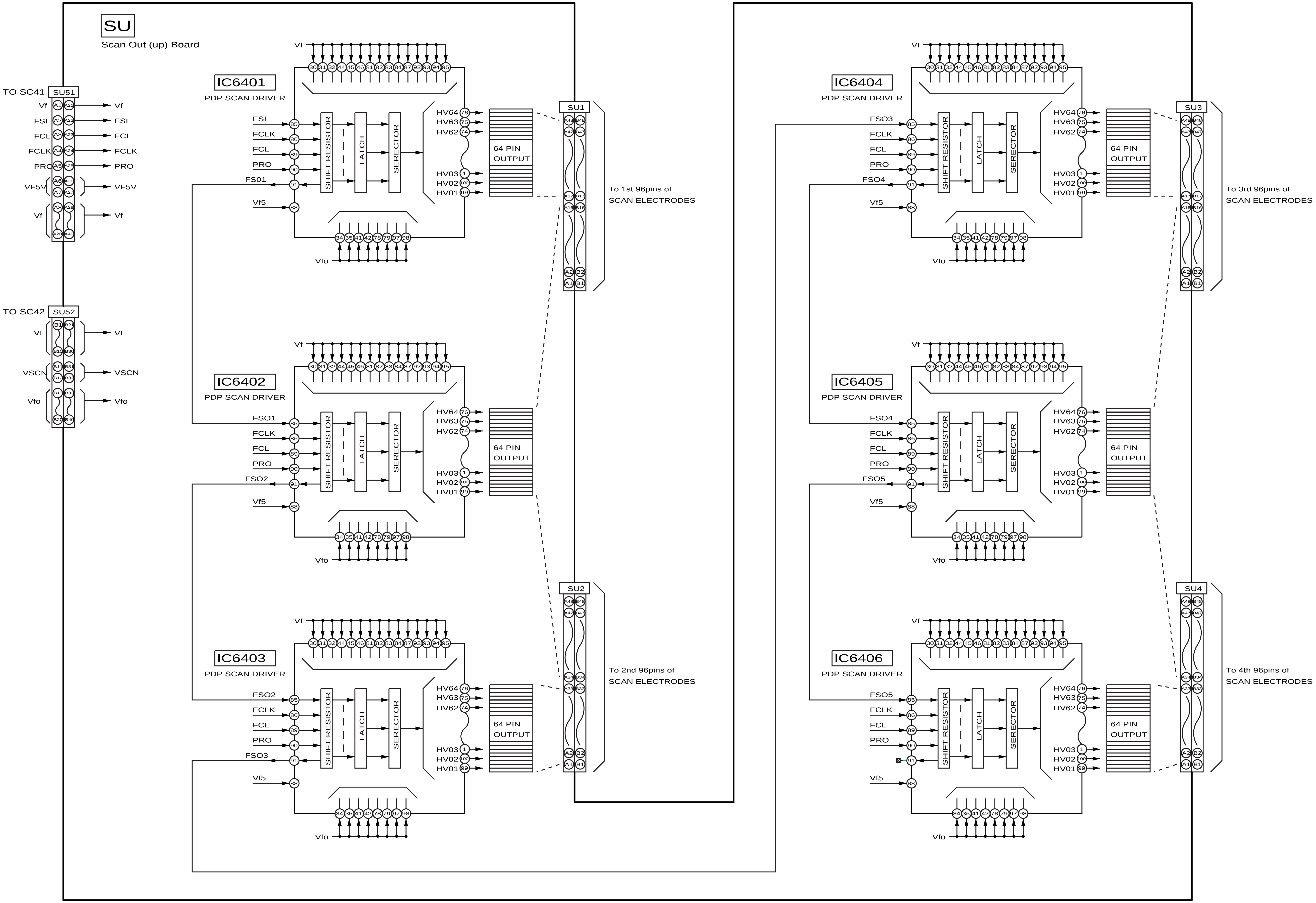

SD
Scan Out (down) Board
TO SC44
SD52
Vf
FSI
FCL
FCLK
PRO
VF5V
Vf
TO SC43
SD51
Vf
VSCN
Vfo
IC6407
PDP SCAN DRIVER
IC6408
PDP SCAN DRIVER
IC6409
PDP SCAN DRIVER
IC6410
PDP SCAN DRIVER
IC6411
PDP SCAN DRIVER
IC6412
PDP SCAN DRIVER
FSI
FCLK
FCL
PRO
FS01
Vf5
FSO1
FSO2
FSO3
FSO4
FSO5
SHIFT RESISTOR
LATCH
SERECTOR
HV01
HV02
HV03
HV62
HV63
HV64
64 PIN OUTPUT
Vfo
SD1
SD2
SD3
SD4
To 1st 96pins of SCAN ELECTRODES
To 2nd 96pins of SCAN ELECTRODES
To 3rd 96pins of SCAN ELECTRODES
To 4th 96pins of SCAN ELECTRODES

TH-42PHD6/TH-42PHW6
SD-BOARD Block Diagram


SS
Sustain Drive Board
TO P12
SS12
STB PS
TP15V
+15V
L6713
15V
VDA
VDA
TPVDA
L6715
TO P11
SS11
TPVSUS
VSUS
VSUS
TO C32
SS32
VDA
TPSOS3
SOS
IC6706
BUFFER
IC6701
FET DRIVER
UMH
Q6732
Q6733
Q6711
Q6714
UMH
S2
UML
Q6734
Q6735
Q6715
Q6718
UML
S3
IC6702
FET DRIVER
USH
S1
USH
Q6701
Q6702
Q6721
Q6722
D6711,12
USL
Q6744
Q6745
Q6723
Q6724
D6715,16
IC6703
FET DRIVER
USL
SS-BOARD
SOS DET
DISCHARGE
Q6741
IC6707
1/2 Vo
D6760
(RED LED)
L6701
L6706
TPSS1
IC6704
FET DRIVER
UEH
VE
INSERT
UEH
Q6727
Q6728
+15V
IC6705
FET DRIVER
D6764
(RED LED)
UEL
Q6725
UEL
Q6729
UEL
Q6730
Q6731
Q6739
Q6738
IC6709
TPVe
R6770
Ve
VE
GENERATOR
S1
Power Switch Board
SS34
S34
POWER SWITCH
S061
SS42
TO C42
+15V
VDA
VDA
SS2
Sustain Connection
(Upper) Board
SS20
SS23
SS55
SS56
SS51
SS52
SS3
Sustain Connection
(Lower) Board
SS21
SS22
SS57
SS58
SS53
SS54

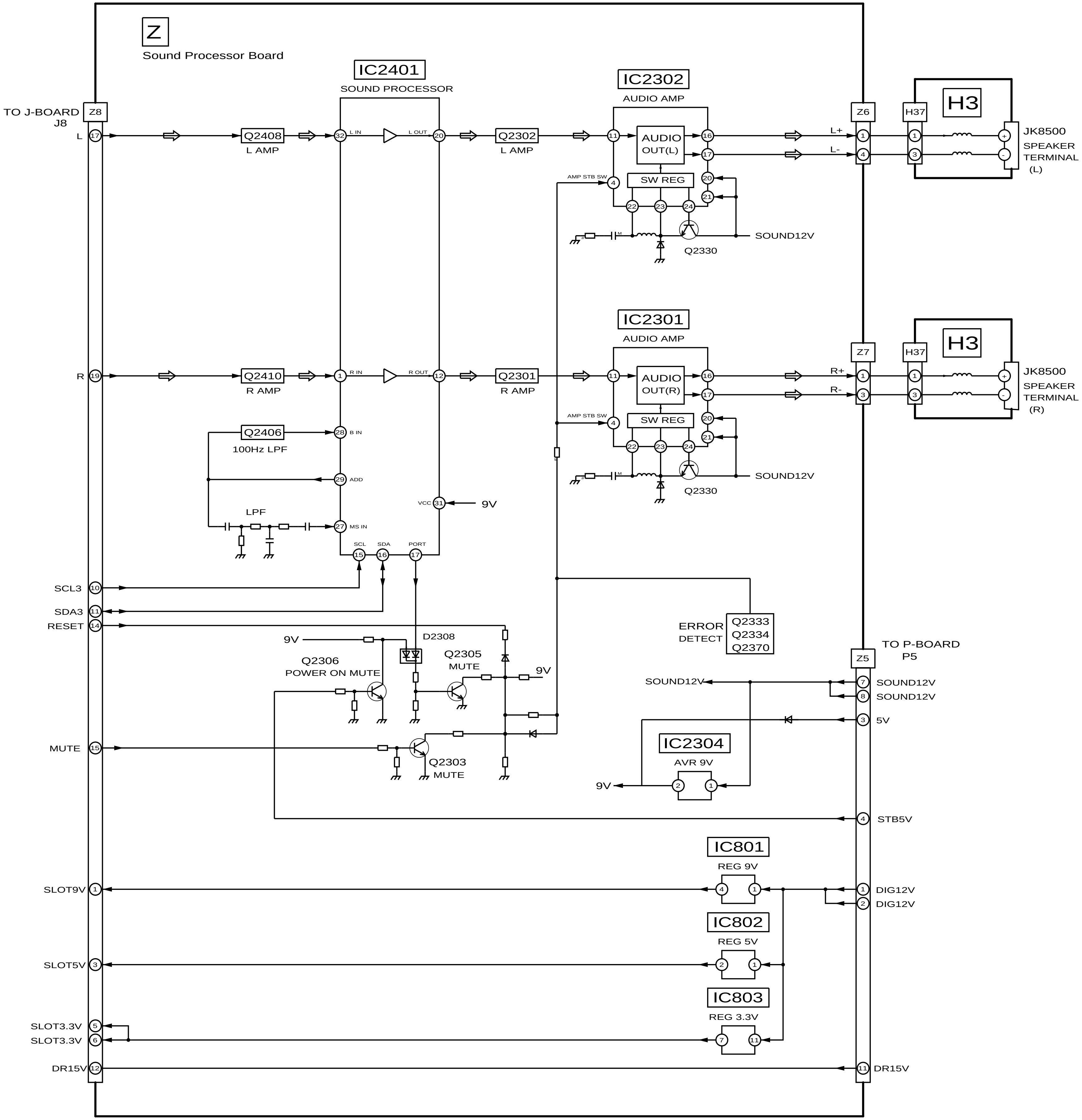
TH-42PHD6/TH-42PHW6
S1-BOARD, SS-BOARD, SS2-BOARD and SS3-BOARD Block Diagram

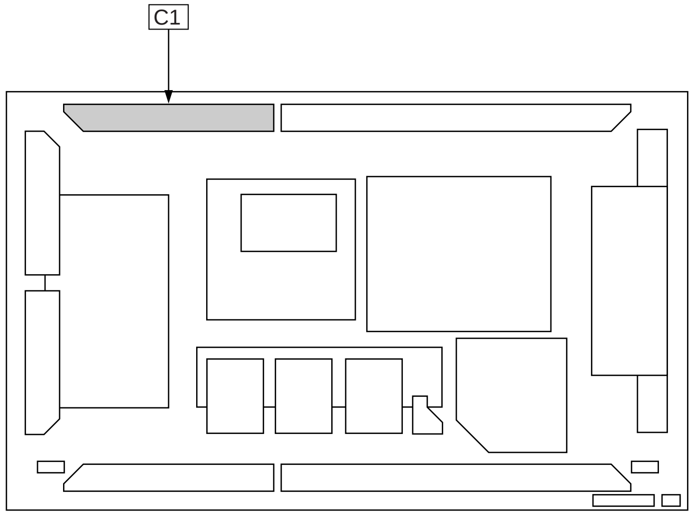
TH-42PHD6/TH-42PHW6
S1-BOARD, SS-BOARD, SS2-BOARD and SS3-BOARD Block Diagram


SU
Scan Out (up) Board
TO SC41
SU51
Vf
FSI
FCL
FCLK
PRO
VF5V
Vf
TO SC42
SU52
Vf
VSCN
Vfo
IC6401
PDP SCAN DRIVER
IC6402
PDP SCAN DRIVER
IC6403
PDP SCAN DRIVER
IC6404
PDP SCAN DRIVER
IC6405
PDP SCAN DRIVER
IC6406
PDP SCAN DRIVER
FSI
FCLK
FCL
PRO
FS01
Vf5
FSO1
FSO2
FSO3
FSO4
FSO5
SHIFT RESISTOR
LATCH
SERECTOR
HV64
HV63
HV62
HV03
HV02
HV01
64 PIN OUTPUT
Vfo
SU1
SU2
SU3
SU4
To 1st 96pins of SCAN ELECTRODES
To 2nd 96pins of SCAN ELECTRODES
To 3rd 96pins of SCAN ELECTRODES
To 4th 96pins of SCAN ELECTRODES

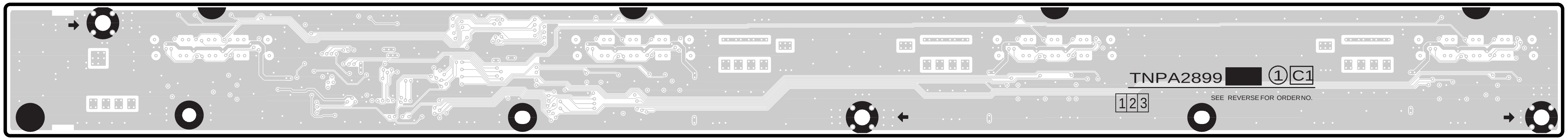
TH-42PHD6/TH-42PHW6
SU-BOARD Block Diagram

TH-42PHD6/TH-42PHW6
SU-BOARD Block Diagram

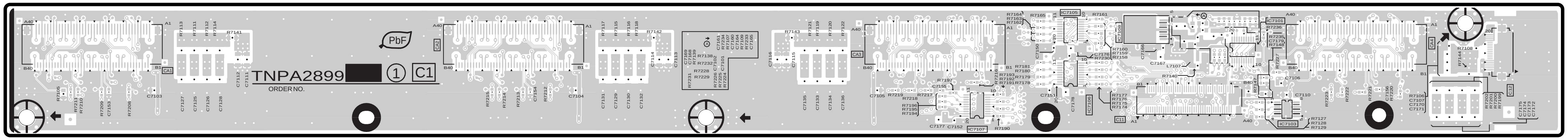

Z
Sound Processor Board
TO J-BOARD
J8
Z8
L
R
IC2401
SOUND PROCESSOR
Q2408
L AMP
Q2410
R AMP
L IN
L OUT
R IN
R OUT
Q2406
100Hz LPF
B IN
ADD
LPF
MS IN
VCC
9V
SCL
SDA
PORT
SCL3
SDA3
RESET
MUTE
IC2302
AUDIO AMP
Q2302
L AMP
AUDIO
OUT(L)
SW REG
AMP STB SW
Q2330
SOUND12V
IC2301
AUDIO AMP
Q2301
R AMP
AUDIO
OUT(R)
SW REG
AMP STB SW
Q2330
SOUND12V
Z6
Z7
H37
H3
L+
L-
R+
R-
JK8500
SPEAKER
TERMINAL
(L)
JK8500
SPEAKER
TERMINAL
(R)
ERROR
DETECT
Q2333
Q2334
Q2370
9V
D2308
Q2306
POWER ON MUTE
Q2305
MUTE
9V
Q2303
MUTE
TO P-BOARD
P5
Z5
SOUND12V
SOUND12V
SOUND12V
5V
IC2304
AVR 9V
9V
STB5V
IC801
REG 9V
DIG12V
DIG12V
IC802
REG 5V
IC803
REG 3.3V
SLOT9V
SLOT5V
SLOT3.3V
SLOT3.3V
DR15V
DR15V

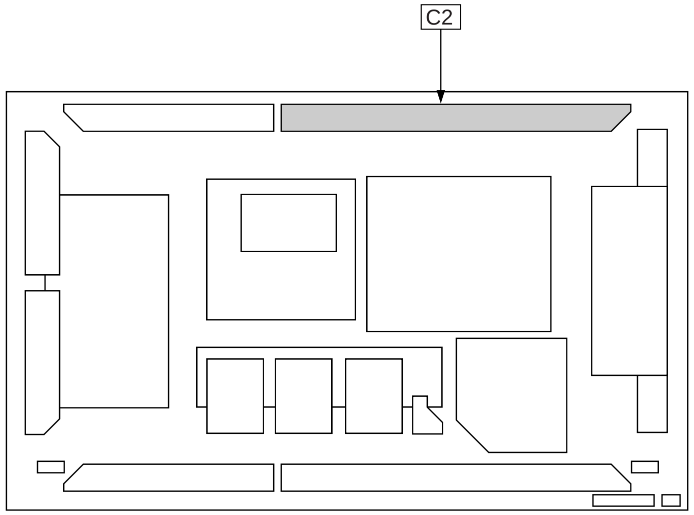


C1-BOARD(FOIL SIDE)
TNPA2899

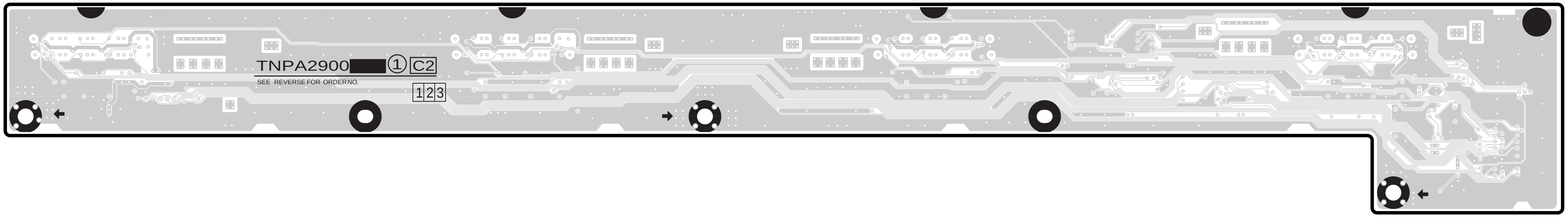

TNPA2899
① C1
1 2 3
SEE REVERSE FOR ORDER NO.

C1-BOARD(COMPONENT SIDE)
TNPA2899

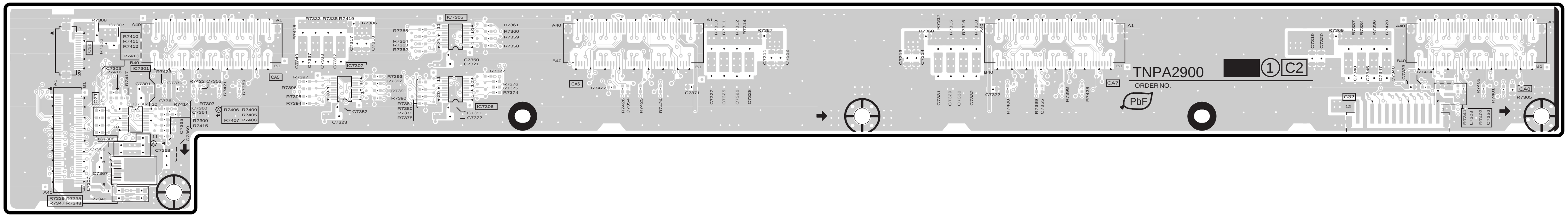

PbF
TNPA2899
① C1
ORDER NO.

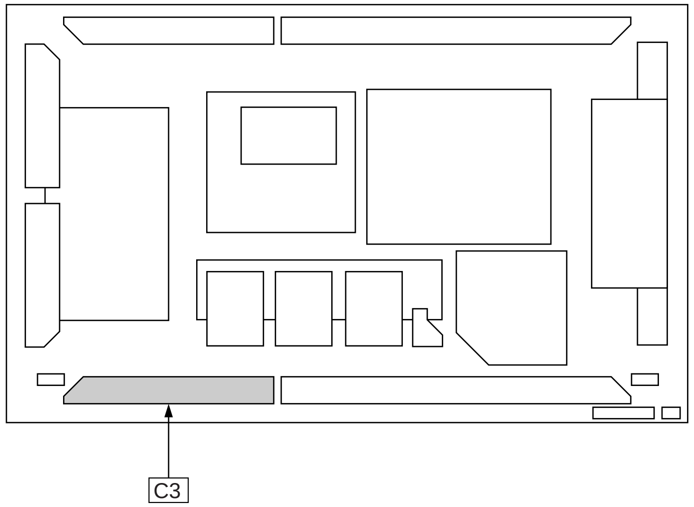


C2-BOARD(FOIL SIDE)
TNPA2900

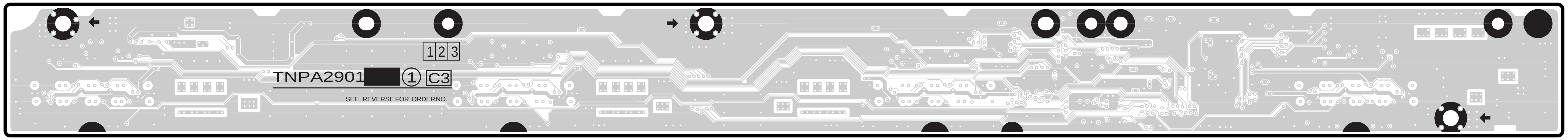

TNPA2900
①
C2
SEE REVERSE FOR ORDER NO.
1 2 3

C2-BOARD(COMPONENT SIDE)
TNPA2900

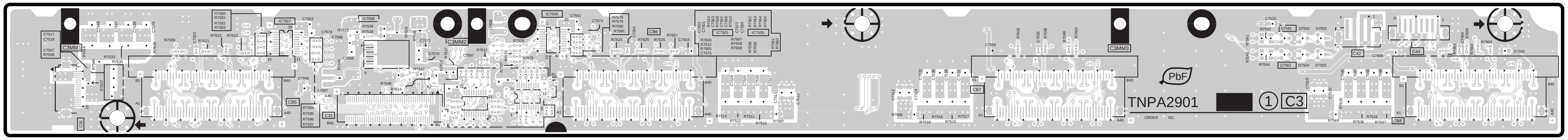

TNPA2900
①
C2
ORDER NO.
PbF



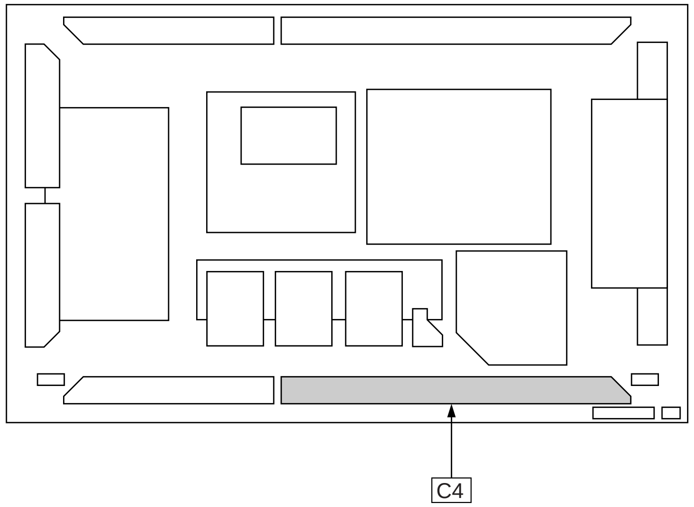
C3-BOARD(FOIL SIDE)
TNPA2901


1 2 3
TNPA2901 ① C3
SEE REVERSE FOR ORDER NO.

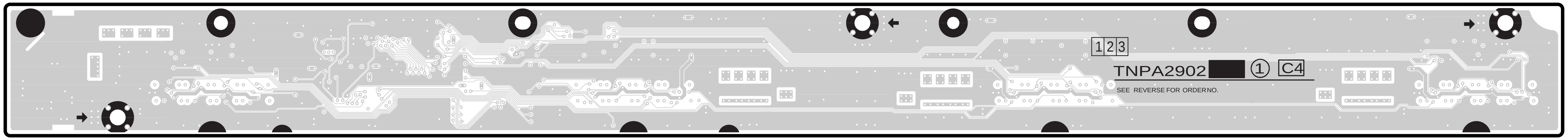
C3-BOARD(COMPONENT SIDE)
TNPA2901


C3MM1
C3MM2
C3MM3
PbF
TNPA2901 ① C3
ORDER NO.

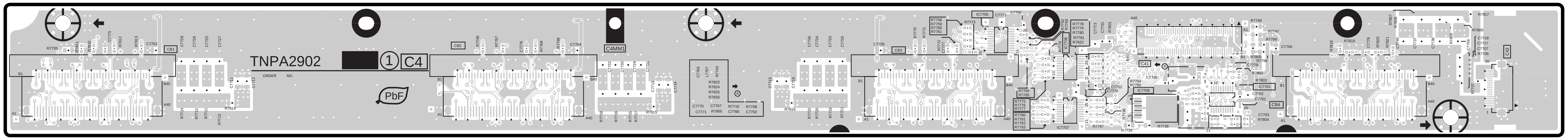
TH-42PHD6/TH-42PHW6
C3-BOARD TNPA2901



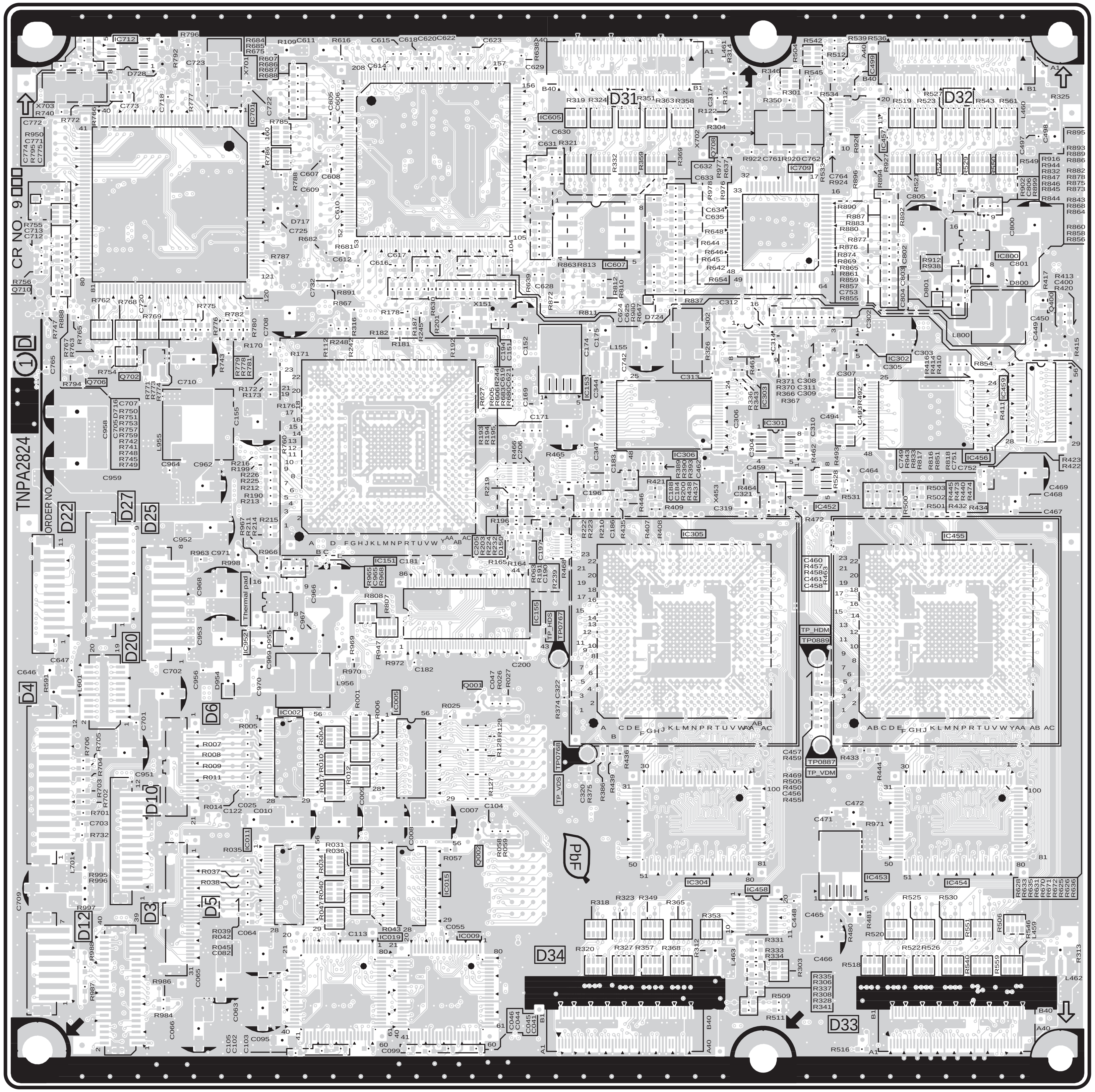
C4-BOARD(FOIL SIDE)
TNPA2902


1 2 3
TNPA2902
①
C4
SEE REVERSE FOR ORDER NO.

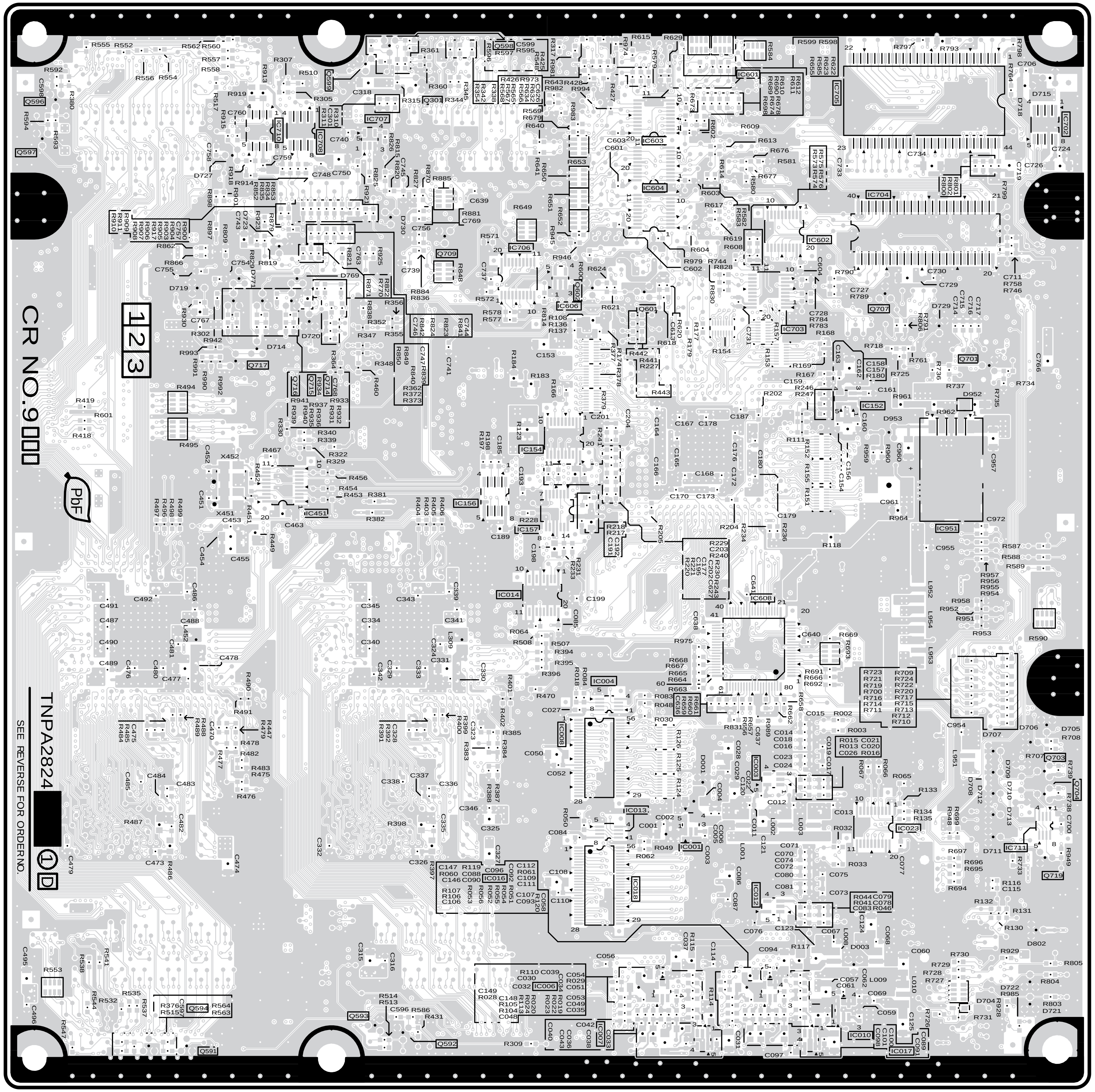
C4-BOARD(COMPONENT SIDE)
TNPA2902

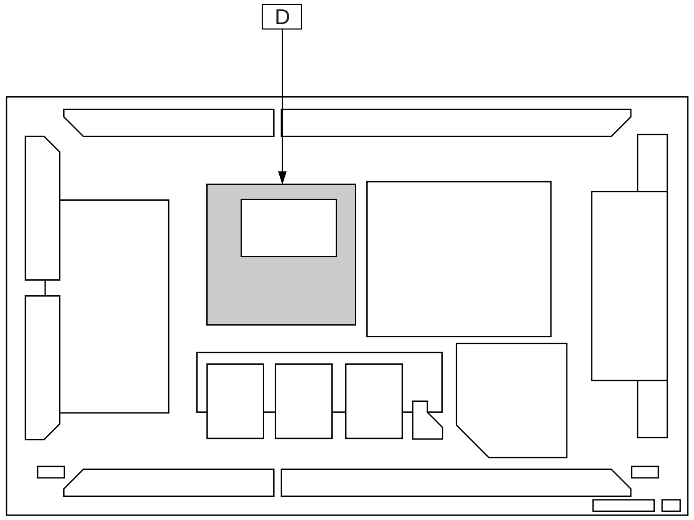

TNPA2902
①
C4
ORDER NO.
PbF
C4MM1
CB1
CB2
CB3
CB4
C41
IC7705
IC7707
IC7708
IC7701
A1
A40
B1
B40

D-BOARD(COMPONENT SIDE)
TZTNP01QJSU


TNPA2824
ORDER NO.
CR NO. 9
PbF
IC712
IC701
IC605
IC607
IC708
IC709
IC800
IC152
IC151
IC155
IC301
IC302
IC303
IC305
IC306
IC452
IC455
IC456
IC459
IC304
IC453
IC454
IC458
IC002
IC005
IC007
IC008
IC009
IC011
IC015
IC019
IC052
Q702
Q706
Q710
Q001
Q002
D3
D4
D5
D6
D10
D12
D20
D22
D25
D27
D31
D32
D33
D34
X151
X302
X701
X703
L155
L459
L460
L462
L463
L601
L701
L800
L955
L956
TP_HDS
TP0767
TP_VDS
TP0768
TP_HDM
TP0889
TP0887
TP_VDM
Thermal pad
A1
A40
B1
B40
1
2
3
4
5
6
A
B
C
D
E
F
G
H
I

D-BOARD(FOIL SIDE)
TZTNP01QJSU


CR NO.9
123
TNPA2824
SEE REVERSE FOR ORDER NO.
PbF



Parts Location

D-BOARD (FOIL SIDE)					
IC		IC603	D-6	**TRANSISTOR**	
IC001	D-2	IC604	D-5	Q301	C-6
IC003	E-2	IC606	D-5	Q591	B-1
IC004	D-3	IC608	E-3	Q592	C-1
IC006	D-1	IC702	F-6	Q593	C-1
IC007	D-1	IC703	E-5	Q594	B-1
IC008	D-3	IC704	E-5	Q596	A-6
IC010	E-1	IC705	E-6	Q597	A-6
IC012	E-2	IC706	C-5	Q598	C-6
IC013	D-2	IC707	C-6	Q599	C-6
IC014	C-3	IC708	B-6	Q601	D-5
IC016	C-2	IC710	B-6	Q602	D-5
IC017	E-1	IC711	F-2	Q701	F-4
IC018	D-2	IC951	F-4	Q703	F-3
IC023	E-2			Q704	F-2
IC152	E-4			Q707	E-5
IC154	C-4			Q709	C-5
IC156	C-4			Q714	B-4
IC157	C-4			Q715	B-4
IC451	B-4			Q716	B-4
IC601	D-6			Q717	B-4
IC602	E-5			Q719	F-2

Parts Location

D-BOARD (COMPONENT SIDE)					
IC		IC459	F-4	**TRANSISTOR**	
IC002	B-3	IC515	C-4	Q001	C-3
IC005	C-3	IC605	C-6	Q002	C-2
IC009	C-2	IC607	D-5	Q400	F-5
IC011	B-2	IC701	B-6	Q702	A-4
IC015	C-2	IC709	E-5	Q706	A-4
IC019	C-2	IC712	A-6	Q708	D-6
IC153	D-4	IC800	F-5	Q710	A-5
IC156	C-3			**TP**	
IC301	E-4			TP0767	D-3
IC302	E-4			TP0768	D-3
IC303	E-4			TP0887	E-3
IC304	D-2			TP0889	E-3
IC305	D-4				
IC306	D-4				
IC452	E-4				
IC453	E-2				
IC454	F-2				
IC455	F-3				
IC456	F-4				
IC457	E-6				
IC458	E-2				

6

5

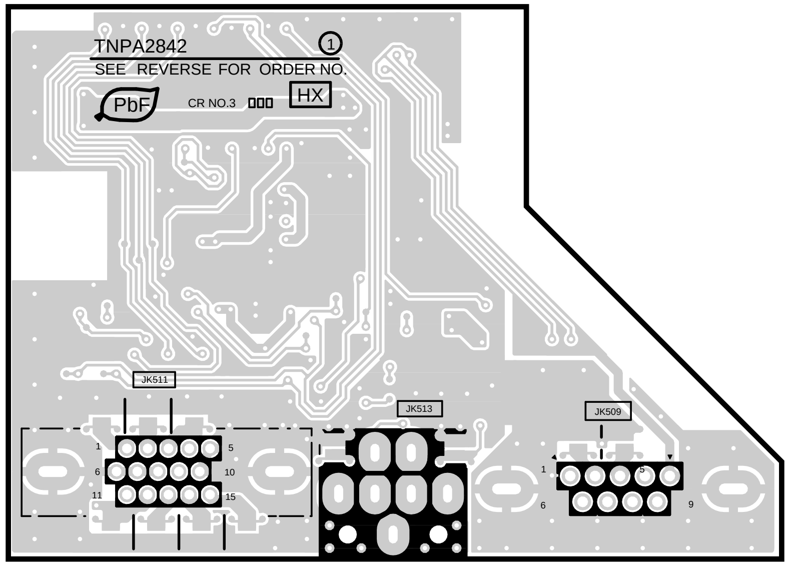
4

3

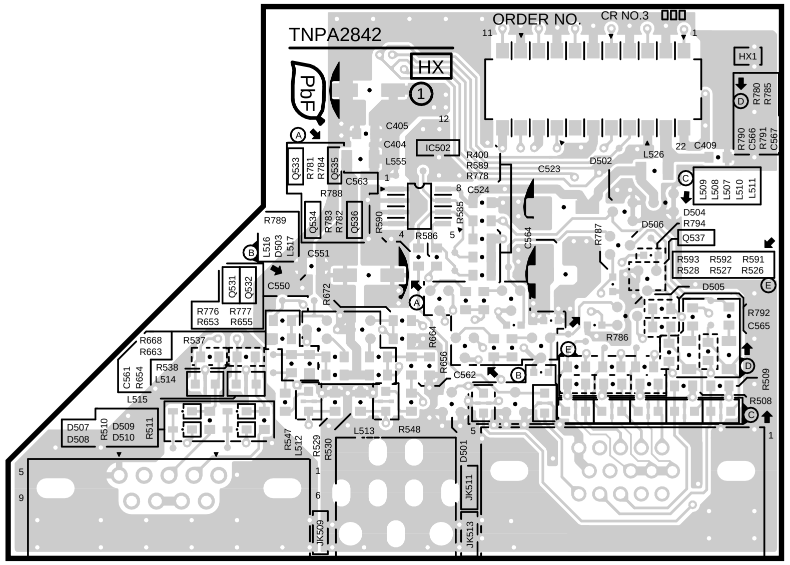
2

1

HX-BOARD(FOIL SIDE)
TZTNP020QJS


TNPA2842
1
SEE REVERSE FOR ORDER NO.
PbF
CR NO.3
HX
JK511
JK513
JK509
1
5
6
10
11
15
1
5
6
9

HX-BOARD(COMPONENT SIDE)
TZTNP020QJS


TNPA2842
ORDER NO.
CR NO.3
HX
1
PbF
HX1
11
1
12
22
C405
C404
IC502
L555
R400
R589
R778
C523
D502
L526
C409
Q533
R781
R784
Q535
C563
R788
R783
R782
Q534
Q536
R590
R586
R585
C524
C564
R787
D506
D504
R794
Q537
R593
R528
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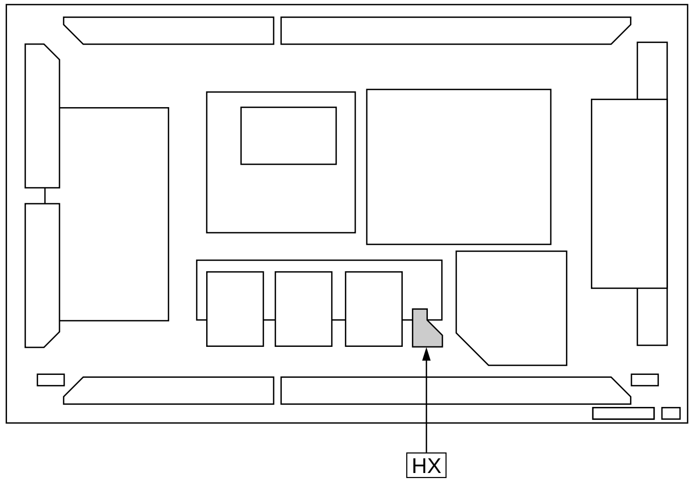
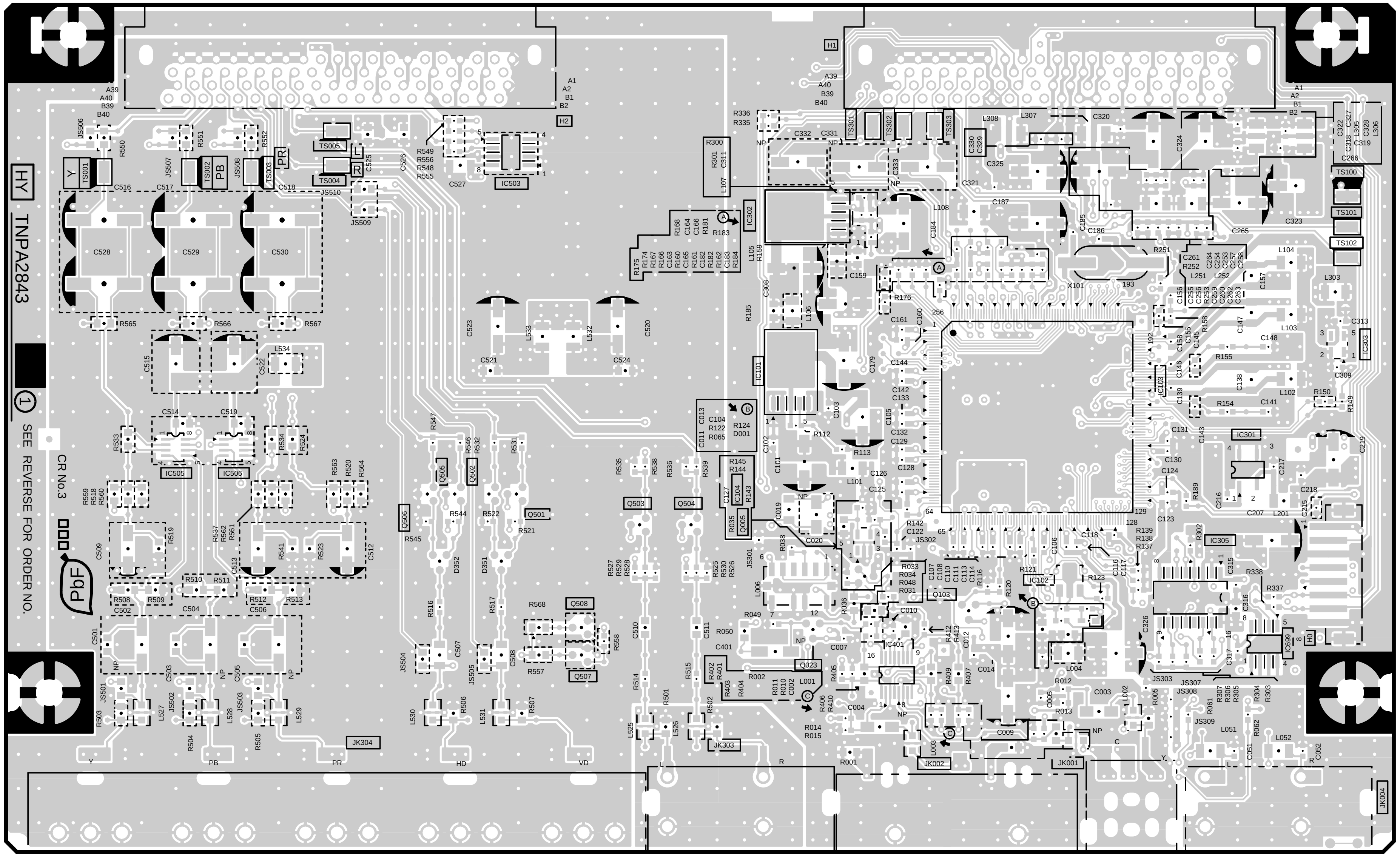


Parts Location

HX-BOARD			
IC		TRANSISTOR	
IC3502	E-4	Q3531	D-4
		Q3532	D-4
		Q3533	E-4
		Q3534	E-4
		Q3535	E-4
		Q3536	E-4
		Q3537	F-4

A B C D E F G H I

HY-BOARD(COMPONENT SIDE)
TXNHY10QBS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TNPA2843
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SEE REVERSE FOR ORDER NO.
CR No.3
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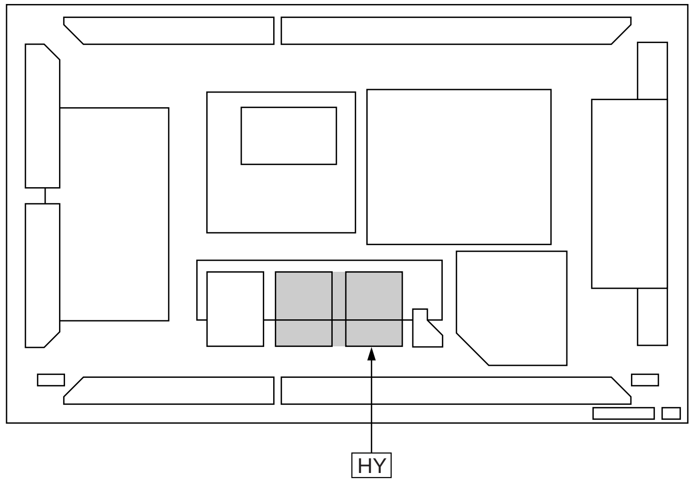
IC3101
IC3102
IC3103
IC3104
JK001
JK002
JK003
JK004
JK304
Y
PB
PR
HD
VD



Parts Location

HY-BOARD (COMPONENT SIDE)			
IC		**TRANSISTOR**	
IC3101	D-4	Q3005	D-3
IC3102	E-3	Q3023	D-2
IC3103	E-3	Q3103	E-3
IC3104	D-3	Q3501	C-3
IC3301	F-3	Q3502	C-3
IC3302	D-4	Q3503	D-3
IC3303	G-4	Q3504	D-3
IC3305	F-3	Q3505	C-3
IC3401	E-2	Q3506	C-3
IC3503	C-5	Q3507	C-2
IC3505	B-3	Q3508	C-3
IC3506	B-3	**TP**	
IC3699	F-2	TS001	A-5
		TS002	B-5
		TS003	B-5
		TS004	B-6
		TS005	B-7
		TS100	G-4
		TS101	G-4
		TS102	G-4
		TS301	E-5
		TS302	E-5
		TS303	E-5

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2

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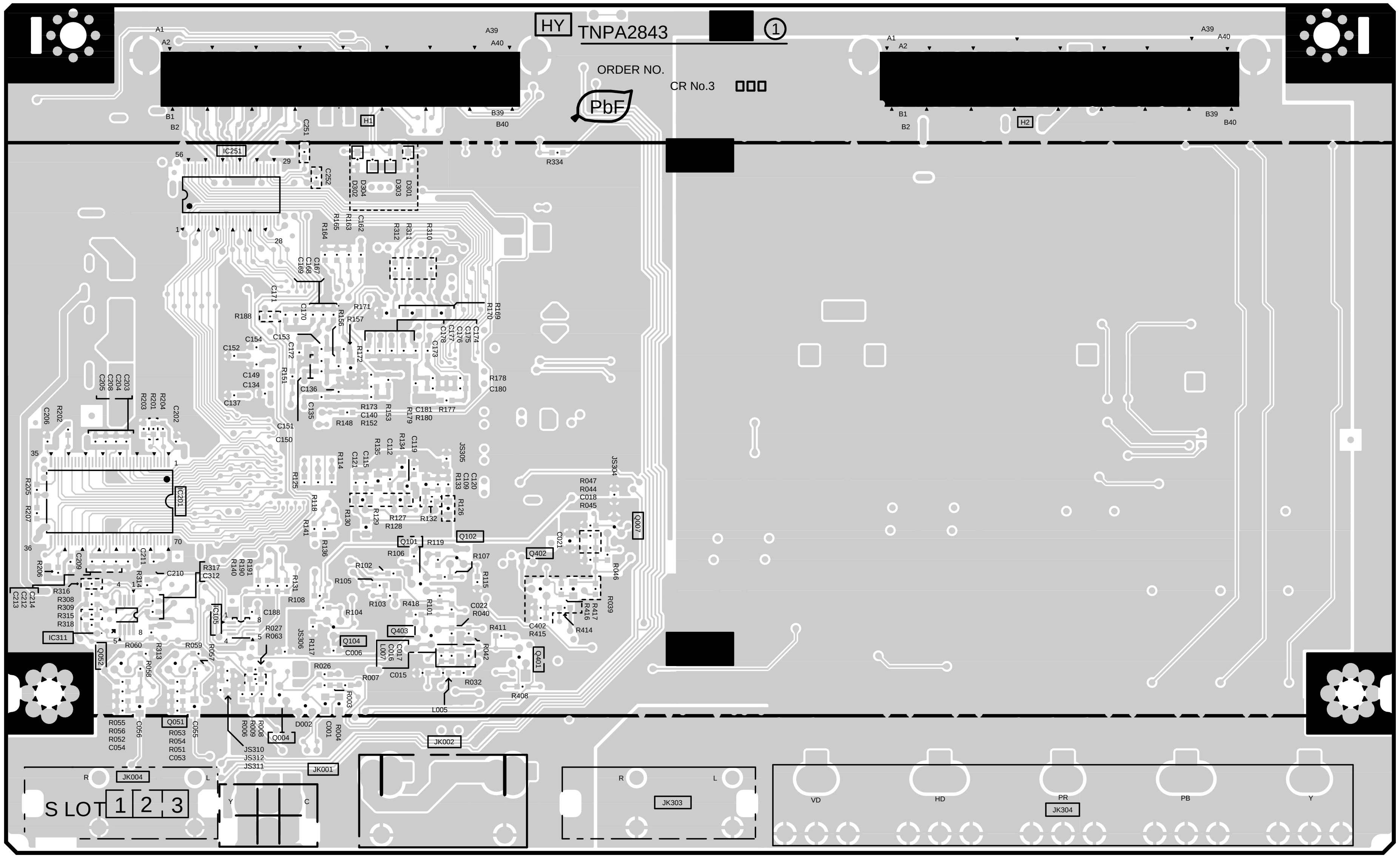
HY-BOARD(FOIL SIDE)
TXNHY10QBS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IC201
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IC105
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Q104
Q402
Q403
Q401
Q007
Q004
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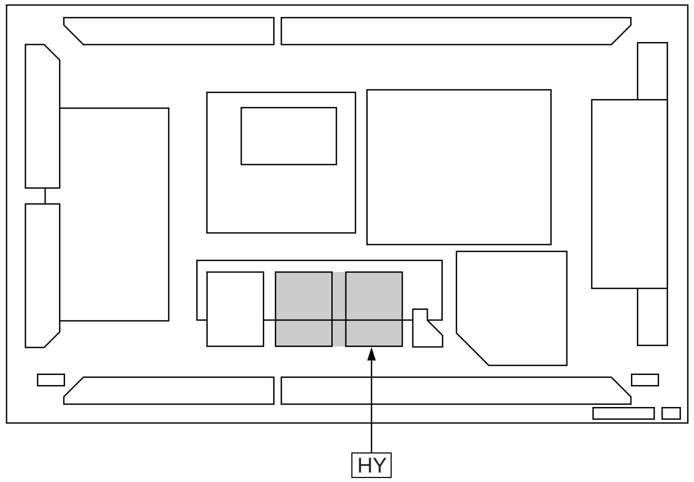
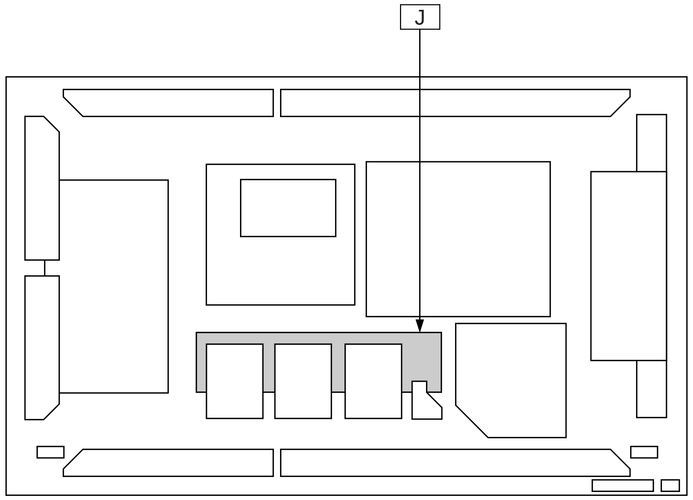
Y



Parts Location

HY-BOARD (FOIL SIDE)			
IC		TRANSISTOR	
IC3105	B-3	Q3004	B-2
IC3201	A-3	Q3007	D-3
IC3251	B-4	Q3051	A-2
IC3311	A-3	Q3052	A-2
		Q3101	C-3
		Q3102	C-3
		Q3104	B-2
		Q3401	C-2
		Q3402	C-3
		Q3403	B-3

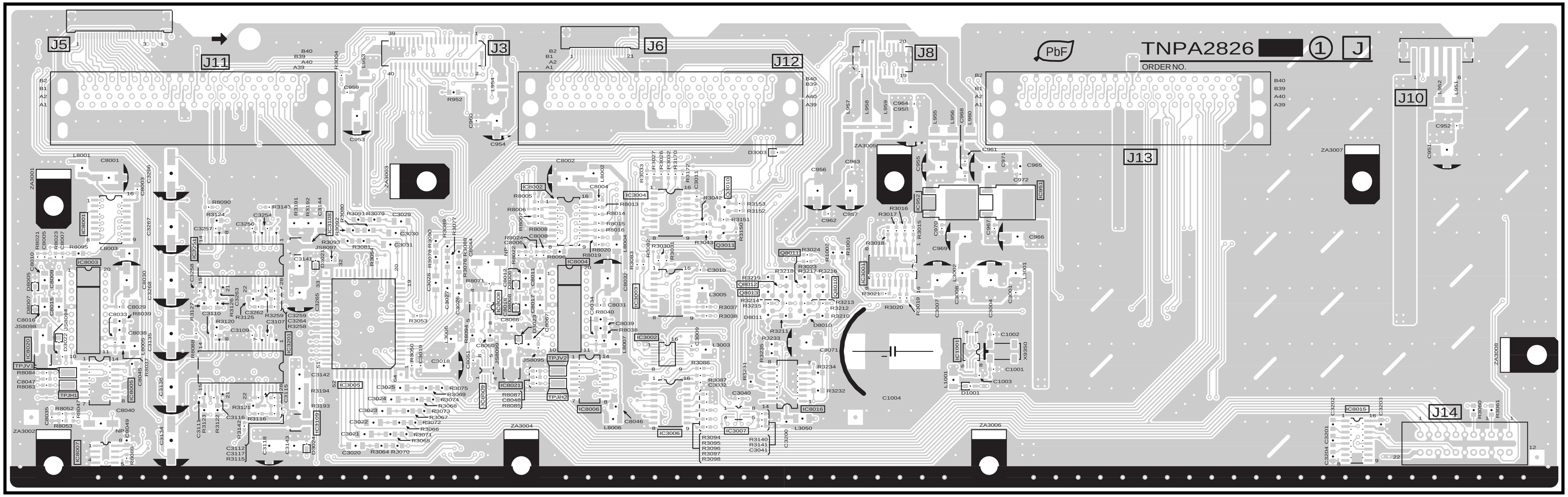
A B C D E F G H I



Parts Location

J-BOARD (COMPONENT SIDE)			
IC		**TRANSISTOR**	
IC1001	F-2	Q3010	E-3
IC3001	F-2	Q3011	E-3
IC3002	D-2	Q8010	E-2
IC3003	D-2	Q8011	E-2
IC3004	D-3	Q8012	E-2
IC3005	C-2	Q8013	E-2
IC3006	D-2		
IC3007	E-1	**TP**	
IC3108	B-2	TPJH1	A-2
IC3109	B-1	TPJH2	D-2
IC3201	B-2	TPJV1	A-2
IC3251	B-2	TPJV2	D-2
IC8001	A-3		
IC8002	D-3		
IC8003	A-2		
IC8004	D-2		
IC8005	A-2		
IC8006	D-2		
IC8007	A-1		
IC8008	C-2		
IC8009	C-2		
IC8015	H-1		
IC8016	E-2		
IC8020	A-2		
IC8021	D-2		
IC951	F-3		
IC952	F-3		

J-BOARD(COMPONENT SIDE)
TNPA2826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J12
J8
PbF
TNPA2826
①
J
ORDER NO.
J13
J10
J14
B40
B39
A40
A39
B2
B1
A2
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ZA3001
ZA3002
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Q8012
Q8013
Q8010
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TPJH1
TPJV2
TPJH2
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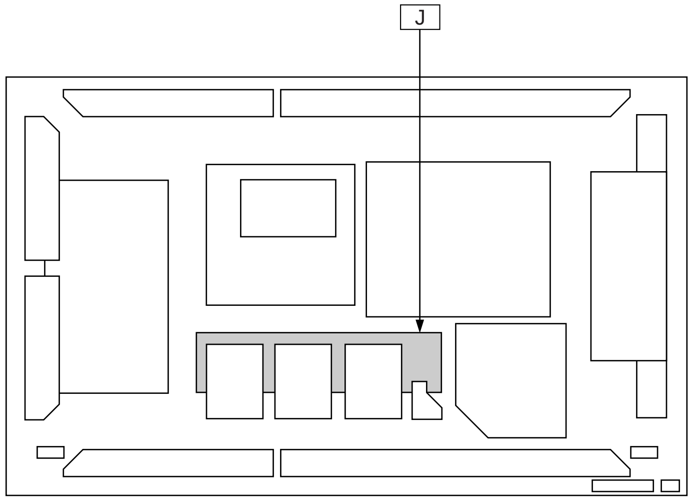
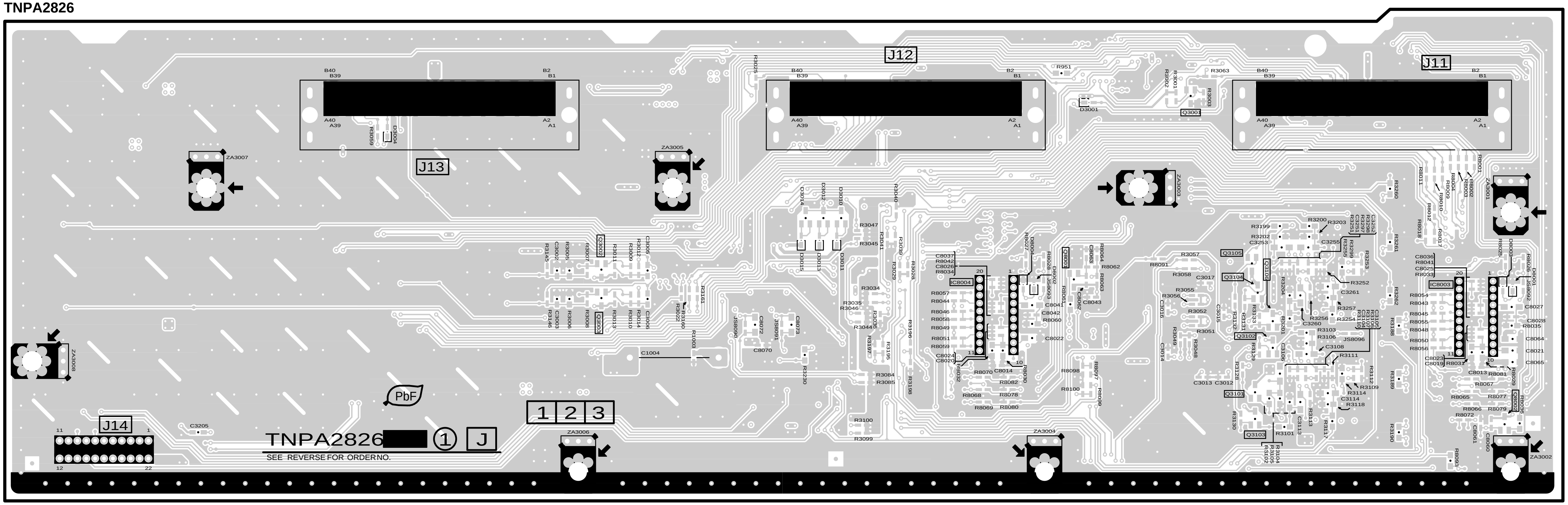


Parts Location

J-BOARD (FOIL SIDE)			
IC		**TRANSISTOR**	
IC8003	I-2	Q3001	G-3
IC8004	F-2	Q3002	D-2
		Q3003	D-2
		Q3101	H-2
		Q3102	H-2
		Q3103	H-1
		Q3104	H-2
		Q3105	H-2
		Q3106	H-2
		Q8001	G-2
		Q8002	I-2

J-BOARD (FOIL SIDE)
TNPA2826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J12
J13
J14
TNPA2826
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SEE REVERSE FOR ORDER NO.
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IC8004
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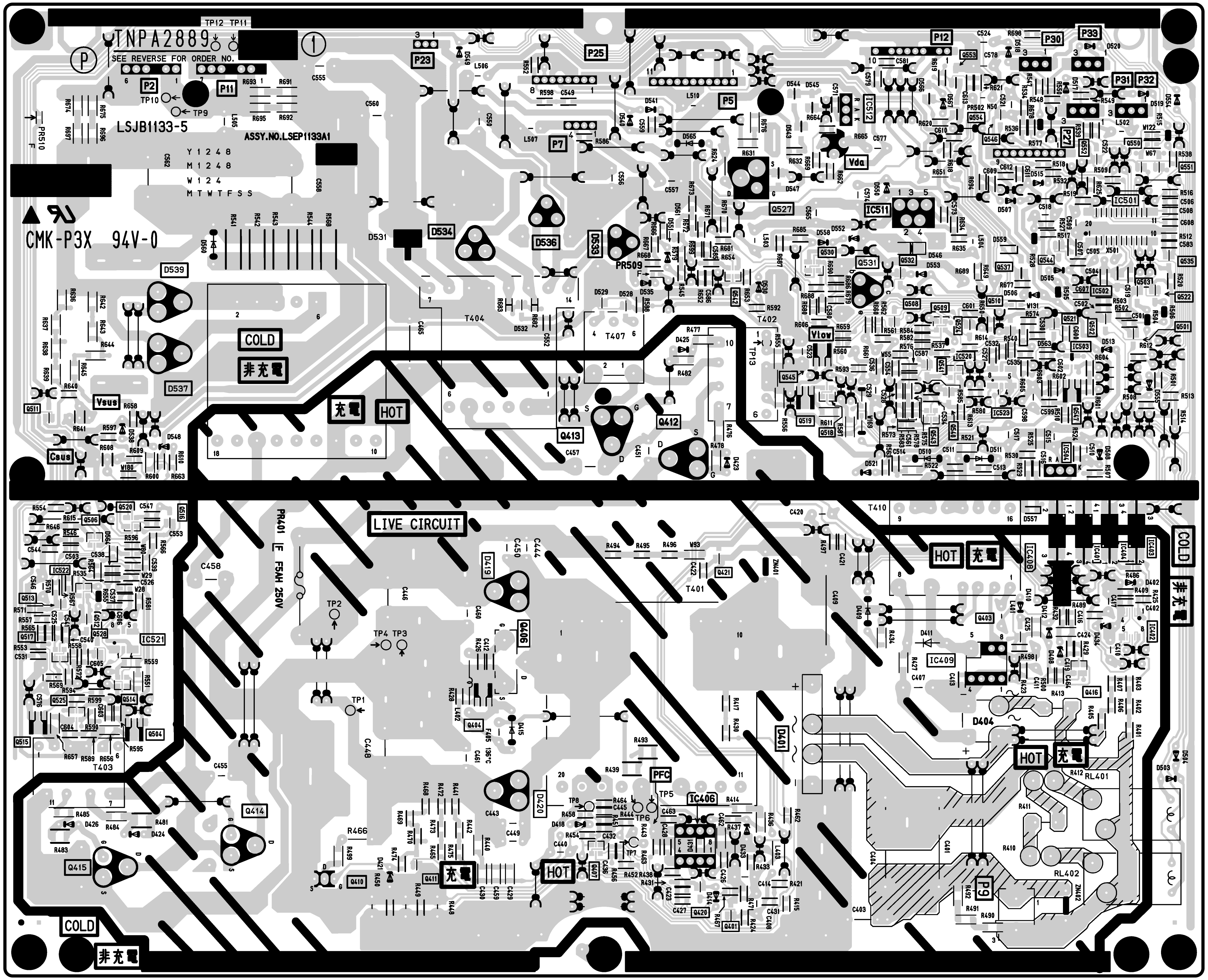
ZA3003
ZA3004
ZA3005
ZA3006
ZA3007
ZA3008

P-BOARD(FOIL SIDE)
TNPA2889



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ASSY.NO.LSEP1133A1
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M 1 2 4 8
W 1 2 4
M T W T F S S
CMK-P3X 94V-0
P2
P11
P23
P25
P5
P7
P12
P30
P33
P31
P32
P27
P9
TP9
TP10
TP11
TP12
PR510
PR509
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Q414
Q415
Q406
Q527
Q531
IC511
IC512
IC501
IC406
IC409
IC521
Vda
Vlow
Vsus
Csus
COLD
非充電
HOT
充電
LIVE CIRCUIT
PR401 F F5AH 250V
TP1
TP2
TP3
TP4
TP5
TP6
TP7
TP8
PFC
D401
D404
D419
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RL401
RL402
C448
C458
R466
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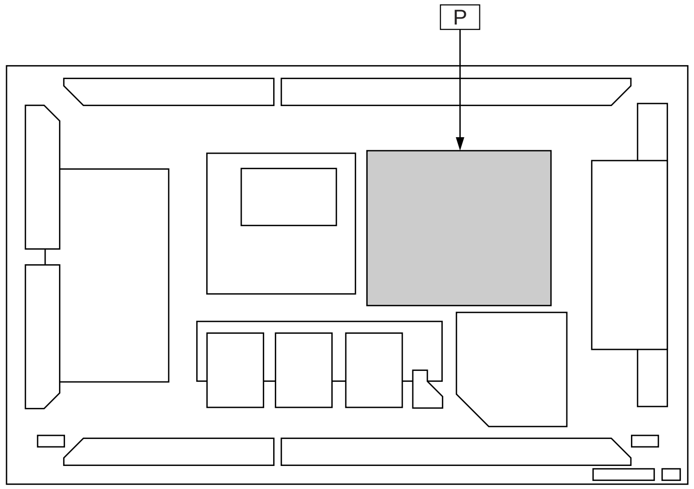
TH-42PHD6/TH-42PHW6
P-BOARD TNPA2889

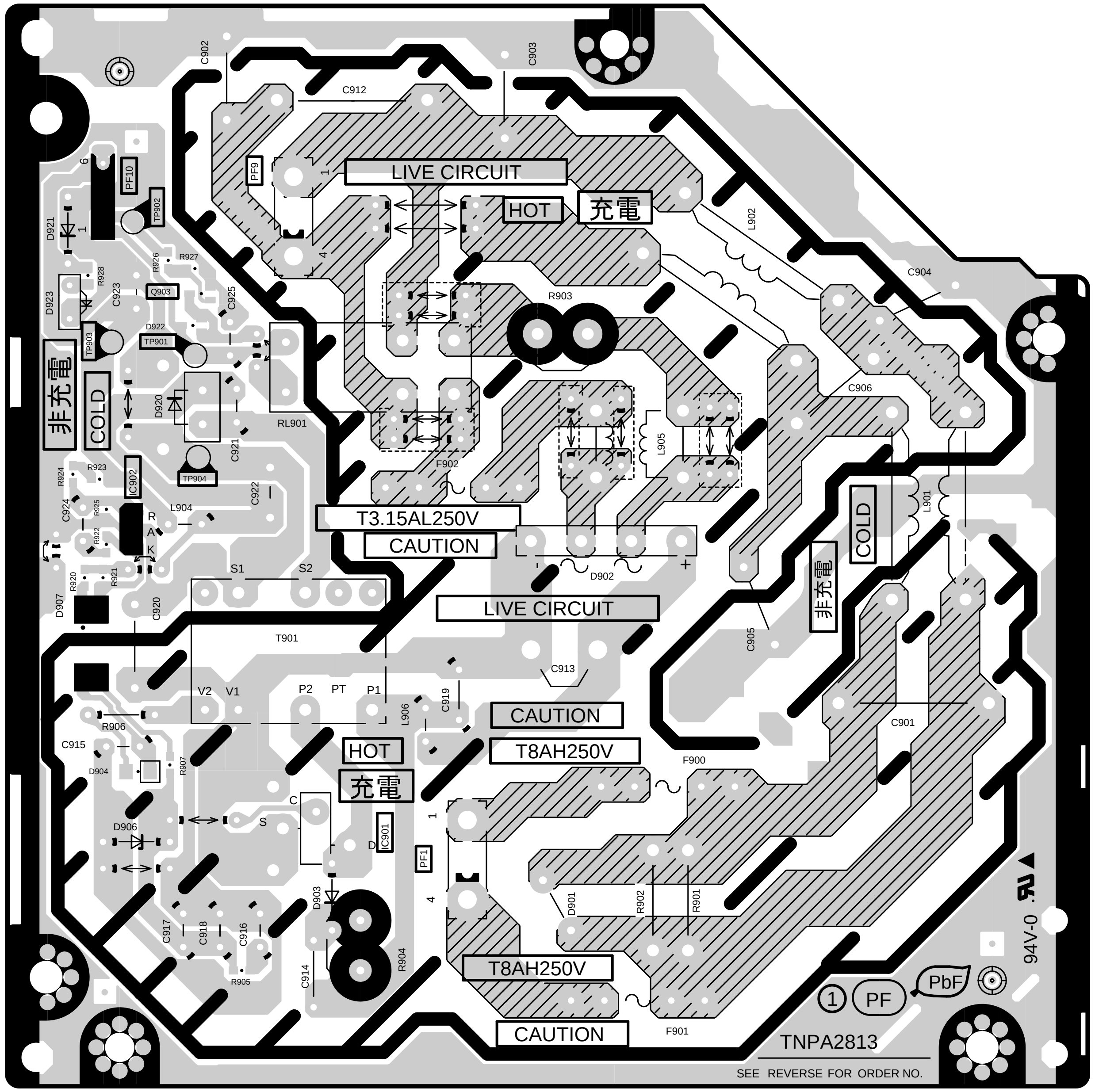
TH-42PHD6/TH-42PHW6
P-BOARD TNPA2889



Parts Location

P-BOARD (FOIL SIDE)							
IC		**TRANSISTOR**		Q516	C-3	**TP**	
IC401	H-3	Q401	F-1	Q517	B-3	TP2	D-3
IC402	H-3	Q403	G-3	Q518	F-4	TP3	D-3
IC403	H-3	Q404	D-2	Q519	F-4	TP4	D-3
IC404	H-3	Q406	D-3	Q520	B-3	TP5	E-2
IC406	F-2	Q407	E-1	Q521	H-4	TP6	E-2
IC408	G-3	Q410	D-1	Q522	H-5	TP7	E-2
IC409	G-3	Q411	D-1	Q524	G-4	TP8	E-2
IC501	H-5	Q412	E-4	Q525	B-2	TP9	C-6
IC502	H-5	Q413	E-4	Q527	F-5	TP10	C-6
IC503	H-4	Q414	C-2	Q528	B-3	TP10	D-2
IC504	H-4	Q415	B-1	Q530	F-5	TP11	C-6
IC511	G-5	Q416	H-2	Q531	F-5	TP12	C-6
IC512	F-6	Q420	F-1	Q532	G-5	TP13	F-4
IC520	G-4	Q421	F-3	Q535	H-5		
IC521	B-3	Q501	H-4	Q537	G-5		
IC522	B-3	Q502	H-4	Q540	G-4		
IC523	G-4	Q503	H-5	Q541	G-4		
		Q504	B-2	Q542	F-5		
		Q506	B-3	Q543	G-4		
		Q508	G-5	Q544	G-5		
		Q509	G-5	Q545	F-4		
		Q510	G-5	Q546	G-5		
		Q511	B-4	Q547	H-4		
		Q512	B-3	Q550	H-5		
		Q513	B-3	Q551	H-5		
		Q514	B-2	Q552	H-5		
		Q515	B-2	Q553	G-6		
				Q554	G-6		

PF-BOARD
TXNPF10QBS



LIVE CIRCUIT
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充電
非充電
COLD
T3.15AL250V
CAUTION
LIVE CIRCUIT
CAUTION
T8AH250V
HOT
充電
T8AH250V
CAUTION
COLD
非充電
C902
C903
C912
PF9
PF10
TP902
D921
R926
R927
R928
D923
C923
Q903
C925
TP903
D922
TP901
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RL901
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V1
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PbF
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TNPA2813
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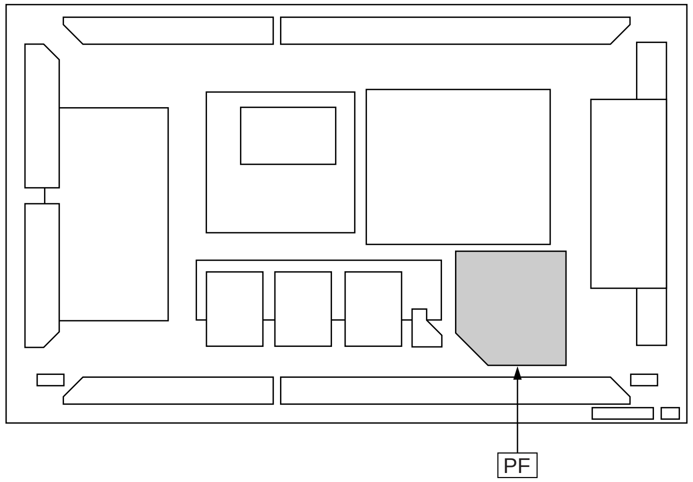
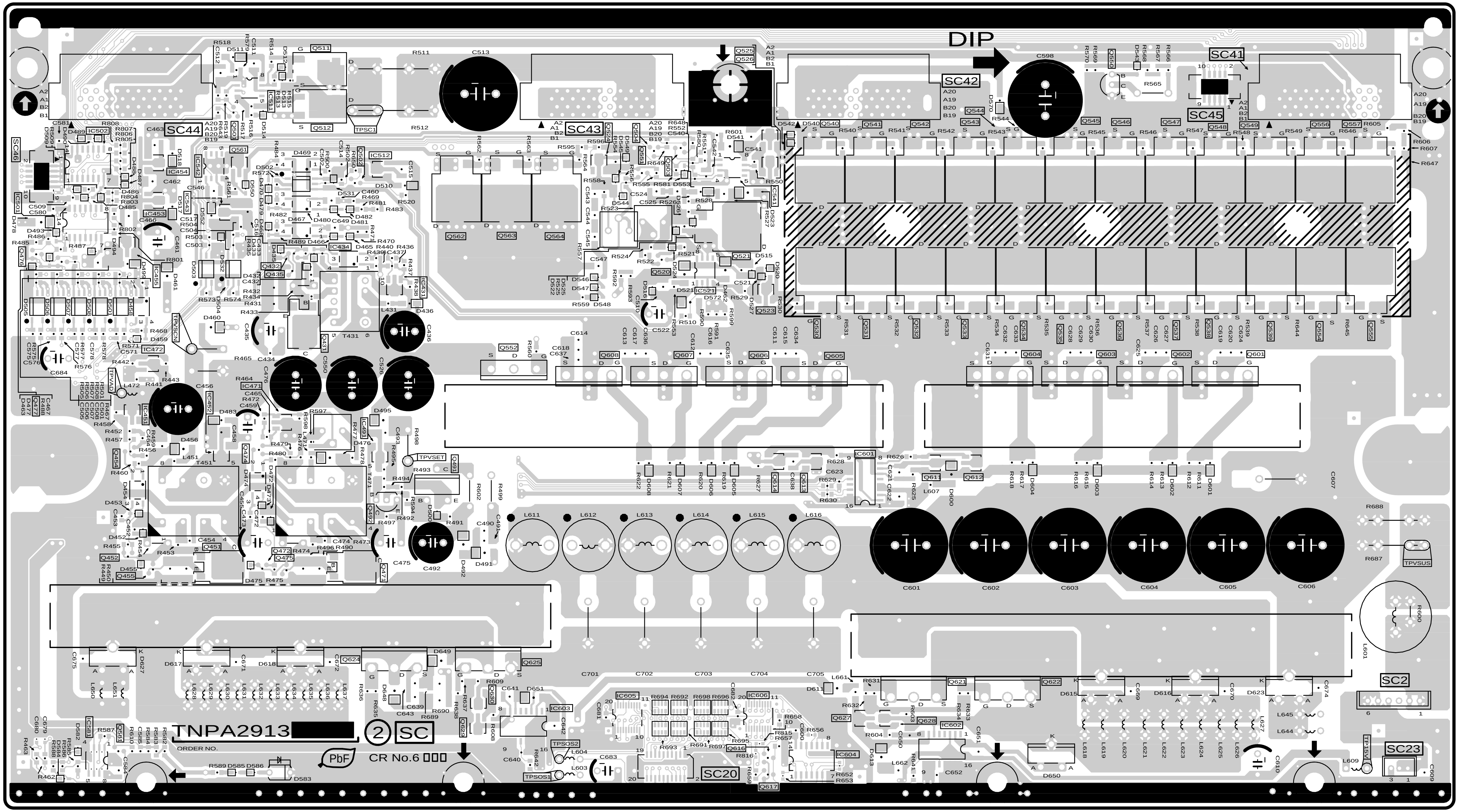


Parts Location

PF-BOARD			
IC		**TP**	
IC901	B-2	TP901	B-4
IC902	A-4	TP902	A-5
TRANSISTOR		TP903	A-4
Q903	B-4	TP904	B-4

SC-BOARD(COMPONENT SIDE)
TXNSC10QJS



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SC23
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2 SC
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TPSOS2
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L615
L616

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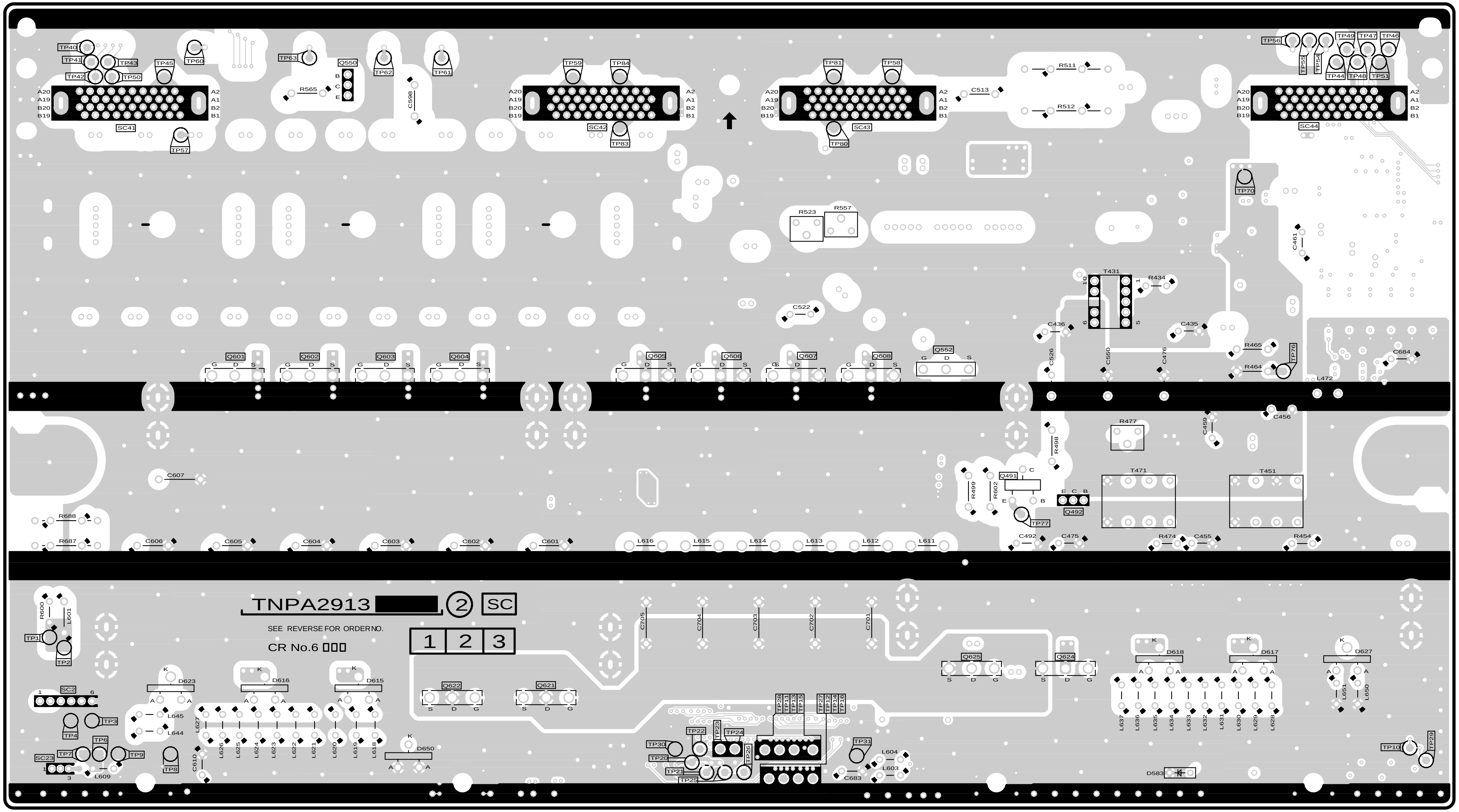
SC-BOARD(FOIL SIDE)
TXNSC10QJS



TNPA2913
2
SC
SEE REVERSE FOR ORDER NO.
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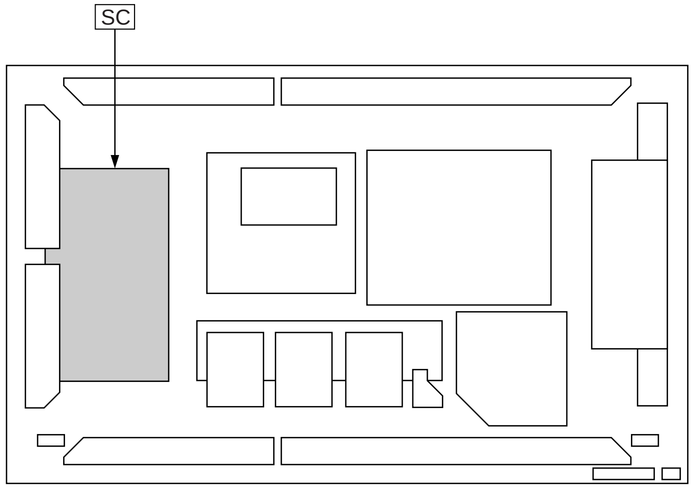

Parts Location

SC-BOARD (FOIL SIDE)					
TRANSISTOR		**TP**		TP41	A-5
Q491	F-3	TP1	A-2	TP42	A-5
Q492	G-3	TP2	A-2	TP43	B-5
Q550	C-5	TP3	A-2	TP44	H-5
Q552	F-4	TP4	A-2	TP45	B-5
Q601	B-4	TP6	A-2	TP46	H-5
Q602	C-4	TP7	A-2	TP47	H-5
Q603	C-4	TP8	B-1	TP48	H-5
Q604	C-4	TP9	B-2	TP49	H-5
Q605	D-4	TP10	I-2	TP50	B-5
Q606	E-4	TP11	E-2	TP51	H-5
Q607	E-4	TP12	E-2	TP54	H-5
Q608	F-4	TP13	E-2	TP55	H-5
Q621	D-2	TP14	E-2	TP56	H-5
Q622	C-2	TP16	E-2	TP57	B-5
Q624	G-2	TP20	E-1	TP58	F-5
Q625	F-2	TP20	I-2	TP59	D-5
		TP21	E-1	TP60	B-5
		TP22	E-2	TP61	C-5
		TP23	E-2	TP62	C-5
		TP24	E-2	TP63	C-5
		TP26	E-1	TP70	H-5
		TP26	E-1	TP76	H-4
		TP27	E-2	TP77	G-3
		TP28	E-2	TP80	E-5
		TP30	E-2	TP81	E-5
		TP31	F-2	TP83	D-5
		TP40	A-5	TP84	D-5

Parts Location

SC-BOARD (COMPONENT SIDE)							
IC		**TRANSISTOR**		Q543	F-5	**TP**	
IC431	C-4	Q431	C-4	Q544	F-5	TP16V	H-1
IC434	C-4	Q432	B-4	Q545	G-5	TPSC1	C-5
IC451	B-3	Q435	B-4	Q546	G-5	TPSOS1	D-1
IC452	B-3	Q451	B-3	Q547	G-5	TPSOS2	D-2
IC453	B-5	Q452	A-3	Q548	H-5	TPVAD	A-4
IC454	B-5	Q454	A-3	Q549	H-5	TPVSCN	B-4
IC455	B-4	Q455	B-3	Q551	D-5	TPVSET	C-3
IC471	B-4	Q471	C-3	Q552	D-4	TPVSUS	I-3
IC472	B-4	Q472	B-3	Q554	H-4		
IC491	C-3	Q474	B-3	Q555	H-4		
IC501	A-5	Q475	B-3	Q556	H-5		
IC502	A-5	Q476	A-4	Q557	H-5		
IC511	B-5	Q477	A-3	Q560	G-5		
IC512	C-5	Q491	C-3	Q561	B-5		
IC521	E-4	Q492	C-3	Q562	C-4		
IC541	E-5	Q501	B-5	Q563	D-4		
IC542	B-5	Q502	C-5	Q564	D-4		
IC543	B-5	Q503	E-5	Q581	A-2		
IC581	A-2	Q504	D-5	Q601	H-4		
IC601	F-3	Q511	C-5	Q602	G-4		
IC602	F-2	Q512	C-5	Q603	G-4		
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IC604	E-2	Q521	E-4	Q605	E-4		
IC605	D-2	Q523	E-4	Q606	E-4		
IC606	E-2	Q524	D-5	Q607	E-4		
		Q525	E-5	Q608	D-4		
		Q526	E-5	Q611	F-3		
		Q530	E-4	Q612	F-3		
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		Q534	F-4	Q617	E-1		
		Q535	G-4	Q621	F-2		
		Q536	G-4	Q622	G-2		
		Q537	G-4	Q624	C-2		
		Q538	H-4	Q625	D-2		
		Q539	H-4	Q627	F-2		
		Q540	E-5	Q628	F-2		
		Q541	F-5	Q629	C-2		
		Q542	F-5	Q630	D-2		

6

5

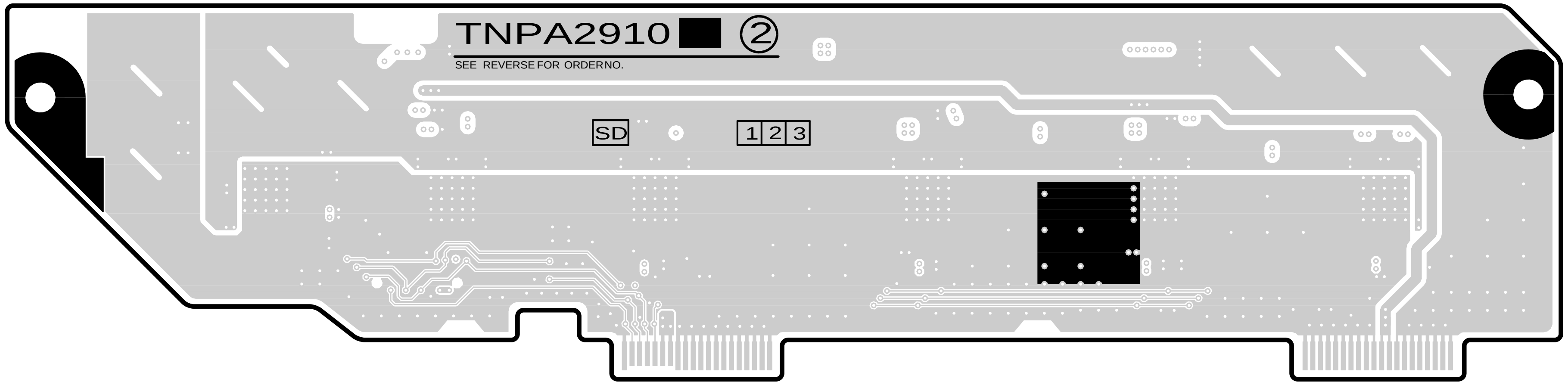
4

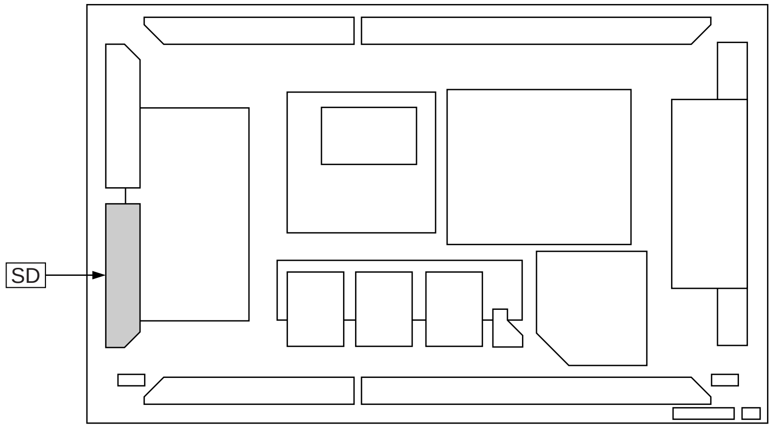
3

2

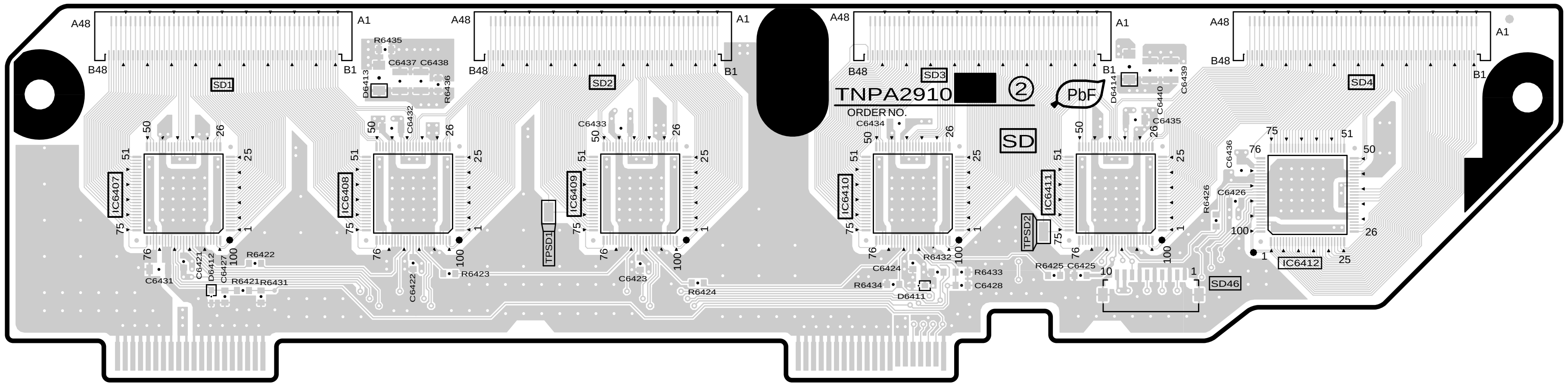
1

SD-BOARD(FOIL SIDE)
TNPA2910


TNPA2910
②
SEE REVERSE FOR ORDER NO.
SD
1 2 3

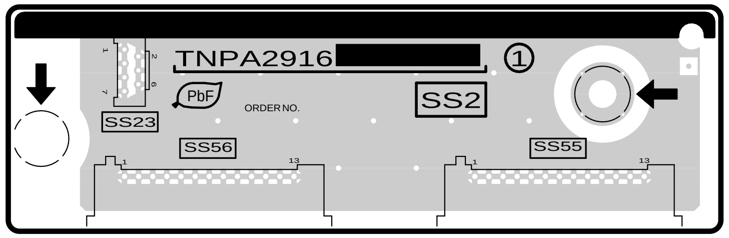


SD-BOARD(COMPONENT SIDE)
TNPA2910

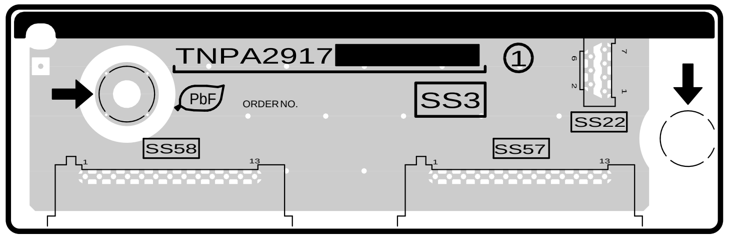

A48
A1
B48
B1
SD1
SD2
SD3
SD4
SD46
SD
TNPA2910
②
ORDER NO.
PbF
IC6407
IC6408
IC6409
IC6410
IC6411
IC6412
TPSD1
TPSD2
D6411
D6412
D6413
D6414
R6421
R6422
R6423
R6424
R6425
R6426
R6431
R6432
R6433
R6434
R6435
R6436
C6421
C6422
C6423
C6424
C6425
C6426
C6427
C6428
C6431
C6432
C6433
C6434
C6435
C6436
C6437
C6438
C6439
C6440
1
10
25
26
50
51
75
76
100

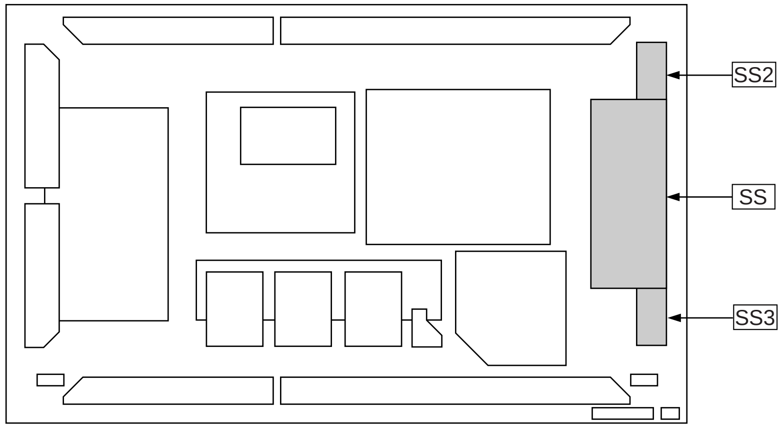
A B C D E F G H I

SS2-BOARD(COMPONENT SIDE)
TNPA2916


TNPA2916
①
PbF
ORDER NO.
SS2
SS23
SS56
SS55
1
13

SS3-BOARD(COMPONENT SIDE)
TNPA2917


TNPA2917
①
PbF
ORDER NO.
SS3
SS22
SS58
SS57
1
13



Parts Location

SS-BOARD (COMPONENT SIDE)

IC

IC701	D-2
IC702	D-3
IC703	C-3
IC704	A-2
IC705	B-4
IC706	G-2
IC707	C-4
IC709	A-2

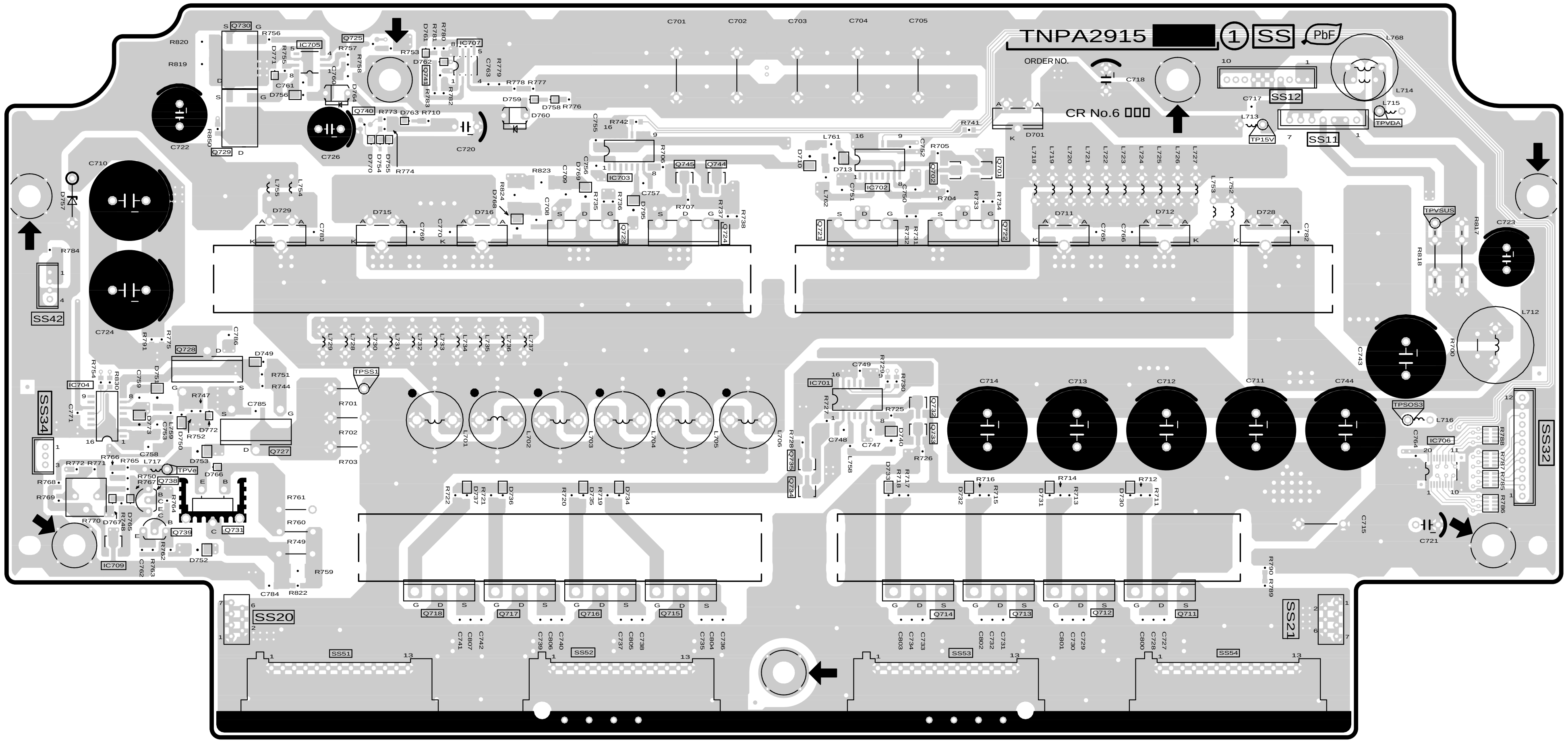
TRANSISTOR

Q701	E-3
Q702	E-3
Q711	F-2
Q712	E-2
Q713	E-2
Q714	E-2
Q715	D-2
Q716	C-2
Q717	C-2
Q718	C-2
Q721	D-3
Q722	E-3
Q723	C-3
Q724	D-3
Q725	B-4
Q727	B-2
Q728	B-3
Q729	B-4
Q730	B-4
Q731	B-2
Q732	E-2
Q733	E-2
Q734	D-2
Q735	D-2
Q738	A-2
Q739	A-2
Q740	B-4
Q741	C-4
Q744	D-3
Q745	D-3

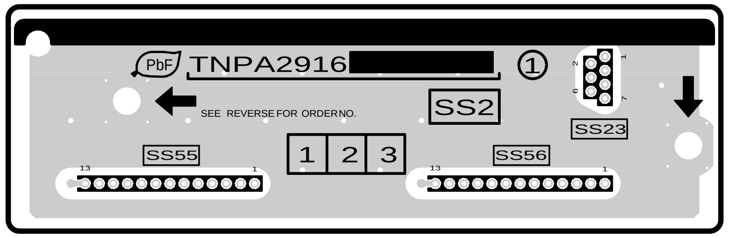
TP

TP15V	F-4
TPSOS3	G-2
TPSS1	B-2
TPVDA	F-4
TPVe	A-2
TPVSUS	G-3

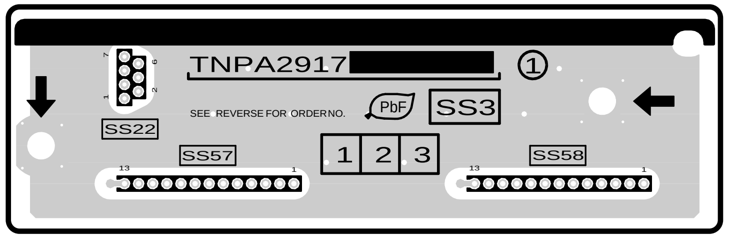
SS-BOARD(COMPONENT SIDE)
TXNSS10QJS

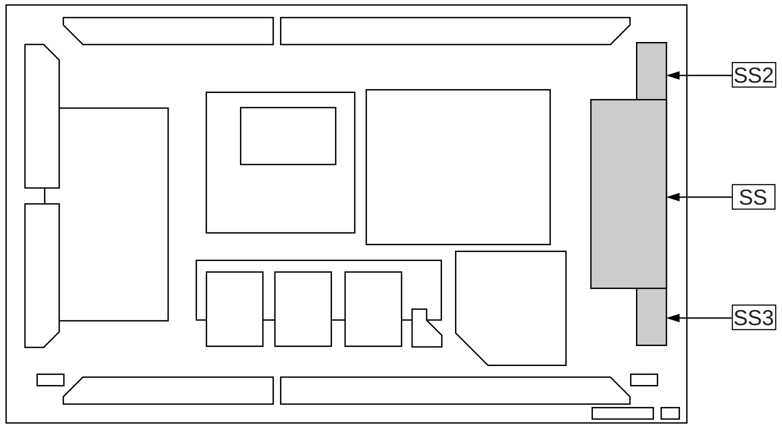

TNPA2915
①
SS
PbF
ORDER NO.
CR No.6
SS12
SS11
SS42
SS34
SS20
SS21
SS32
SS51
SS52
SS53
SS54
TP15V
TPVDA
TPVSUS
TPSOS3
TPSS1
TPVe
IC701
IC702
IC703
IC704
IC705
IC706
IC707
IC709
C701
C702
C703
C704
C705
C710
C711
C712
C713
C714
C722
C723
C724
C726
C743
C744
L712
L768

SS2-BOARD(FOIL SIDE)
TNPA2916


PbF
TNPA2916
①
SEE REVERSE FOR ORDER NO.
SS2
SS23
SS55
SS56
1 2 3
13
1

SS3-BOARD(FOIL SIDE)
TNPA2917

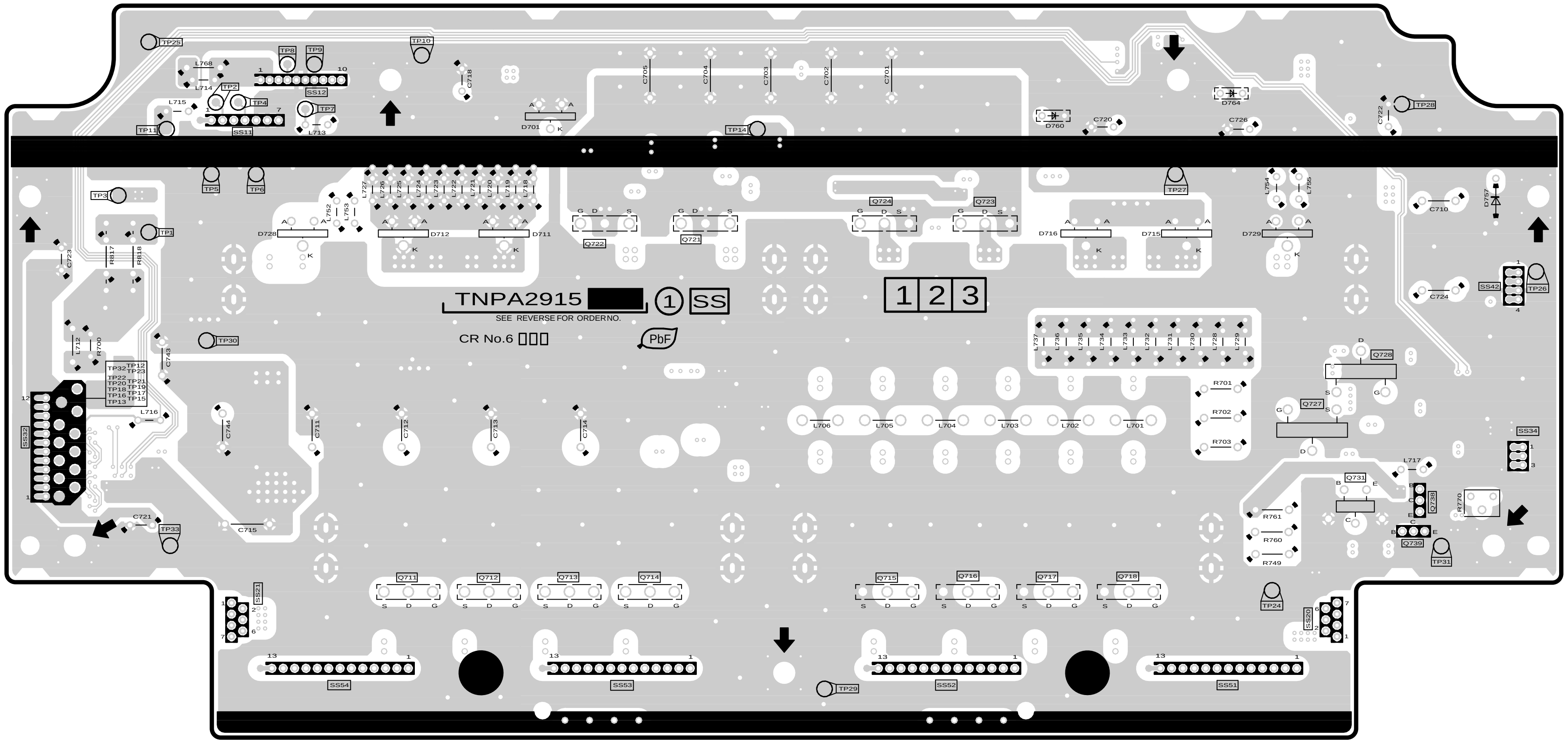

TNPA2917
①
SEE REVERSE FOR ORDER NO.
PbF
SS3
SS22
SS57
SS58
1 2 3
13
1



Parts Location

SS-BOARD (FOIL SIDE)					
TRANSISTOR		**TP**			
Q711	B-2	TP2	B-4	TP18	A-2
Q712	C-2	TP3	A-3	TP19	A-2
Q713	C-2	TP4	B-4	TP20	A-3
Q714	C-2	TP5	B-3	TP21	A-3
Q715	D-2	TP6	B-3	TP22	A-3
Q716	E-2	TP7	B-4	TP23	A-3
Q717	E-2	TP8	B-4	TP24	F-2
Q718	E-2	TP9	B-4	TP25	A-4
Q721	D-3	TP10	C-4	TP26	G-3
Q722	C-3	TP11	A-4	TP27	F-3
Q723	E-3	TP11	A-3	TP28	G-4
Q724	D-3	TP12	A-3	TP29	D-1
Q727	F-2	TP13	A-2	TP30	B-3
Q728	F-3	TP14	D-4	TP31	G-2
Q731	F-2	TP15	A-2	TP32	A-3
Q738	G-2	TP16	A-2	TP33	A-2
Q739	G-2	TP17	A-2		

SS-BOARD(FOIL SIDE)
TXNSS10QJS


TNPA2915
①
SS
SEE REVERSE FOR ORDER NO.
CR No.6
PbF
1 2 3
TP25
TP8
TP9
TP10
L768
L714
L715
TP2
TP4
TP7
TP11
SS12
SS11
L713
D701
TP14
C705
C704
C703
C702
C701
C718
D760
C720
D764
C726
C722
TP28
TP3
TP5
TP6
TP1
TP27
D728
D712
D711
Q722
Q721
Q724
Q723
D716
D715
D729
L754
L756
C710
D757
C723
R817
R818
C724
SS42
TP26
L737
L736
L735
L734
L733
L732
L731
L730
L728
L729
Q728
L712
R700
C743
TP30
TP32
TP12
TP23
TP22
TP21
TP20
TP19
TP18
TP17
TP16
TP15
TP13
L716
SS32
C744
C711
C712
C713
C714
L706
L705
L704
L703
L702
L701
R701
R702
R703
Q727
SS34
L717
Q731
Q738
R770
R761
R760
R749
Q739
TP31
C721
TP33
C715
Q711
Q712
Q713
Q714
Q715
Q716
Q717
Q718
TP24
SS21
SS20
SS54
SS53
SS52
SS51
TP29
S D G

TH-42PHD6/TH-42PHW6
SS-BOARD TXNSS10QJS
SS2-BOARD TNPA2916
SS3-BOARD TNPA2917

TH-42PHD6/TH-42PHW6
SS-BOARD TXNSS10QJS
SS2-BOARD TNPA2916
SS3-BOARD TNPA2917

6

5

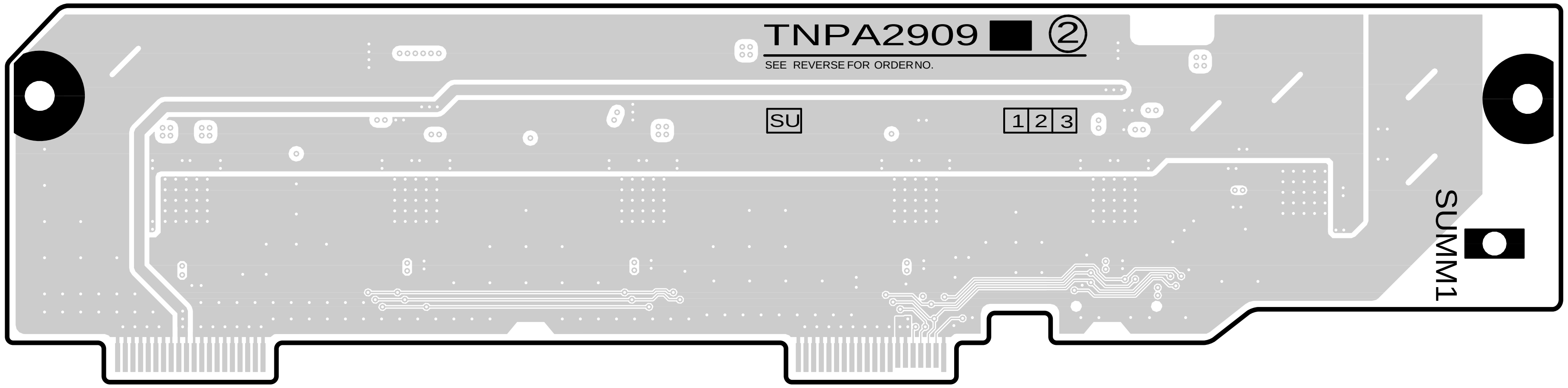
4

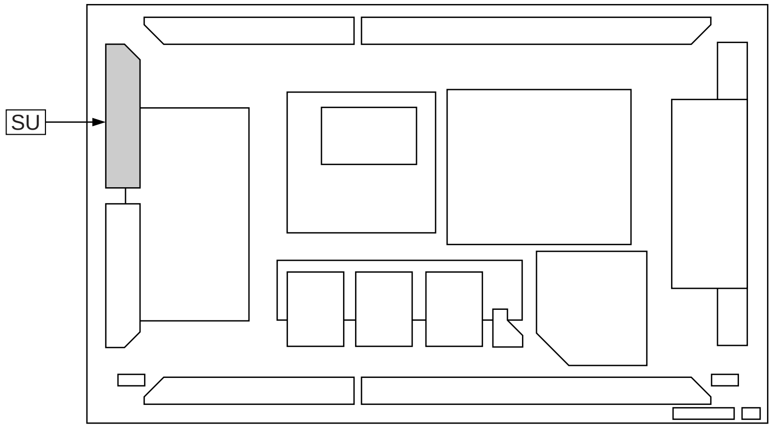
3

2

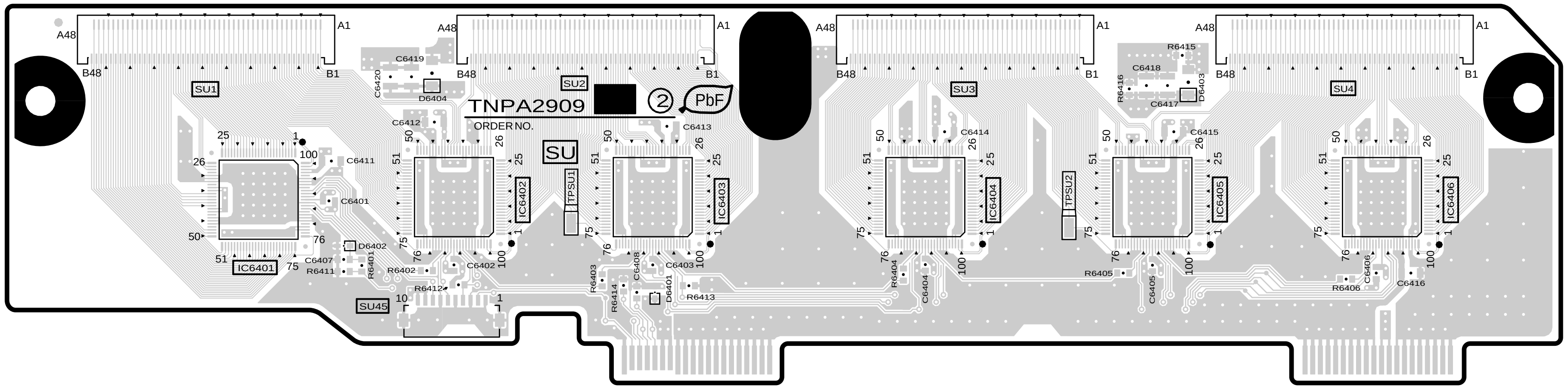
1

SU-BOARD(FOIL SIDE)
TNPA2909


TNPA2909 ②
SEE REVERSE FOR ORDER NO.
SU
1 2 3
SUMM1



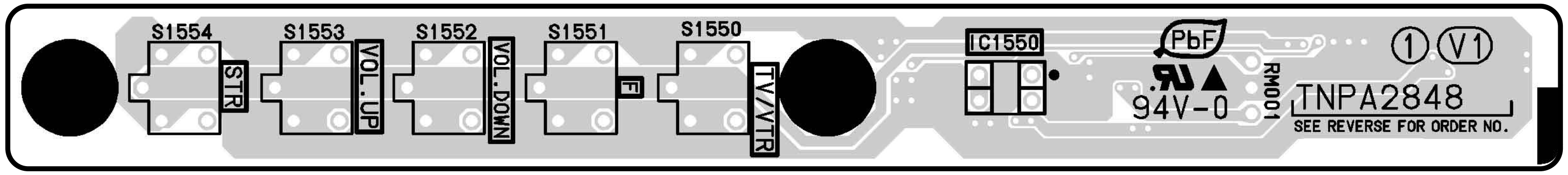
SU-BOARD(COMPONENT SIDE)
TNPA2909


A48
A1
B48
B1
SU1
SU2
SU3
SU4
SU45
TNPA2909 ②
PbF
ORDER NO.
SU
IC6401
IC6402
IC6403
IC6404
IC6405
IC6406
TPSU1
TPSU2
C6401
C6402
C6403
C6404
C6405
C6406
C6407
C6408
C6411
C6412
C6413
C6414
C6415
C6416
C6417
C6418
C6419
C6420
D6401
D6402
D6403
D6404
R6401
R6402
R6403
R6404
R6405
R6406
R6411
R6412
R6413
R6414
R6415
R6416
1
25
26
50
51
75
76
100
10

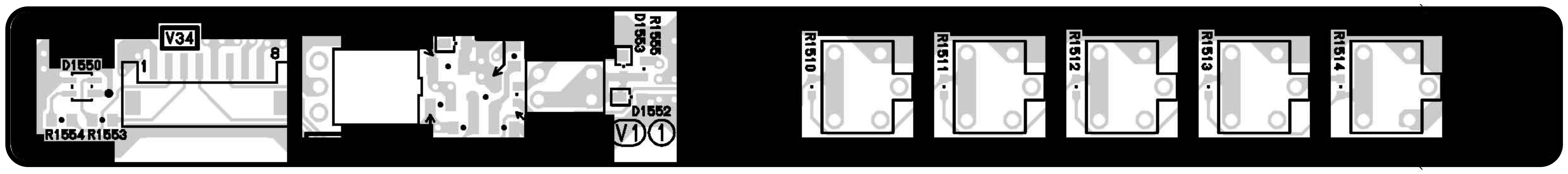
TH-42PHD6/TH-42PHW6
SU-BOARD TNPA2909

A B C D E F G H I

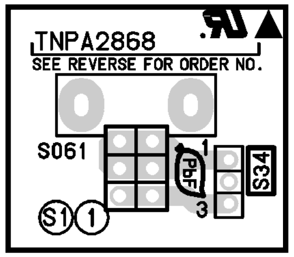
V1-BOARD(FOIL SIDE)
TXNV110QJS


S1554
S1553
S1552
S1551
S1550
STR
VOL.UP
VOL.DOWN
F
TV/VTR
IC1550
PbF
94V-0
RM001
TNPA2848
SEE REVERSE FOR ORDER NO.
1
V1

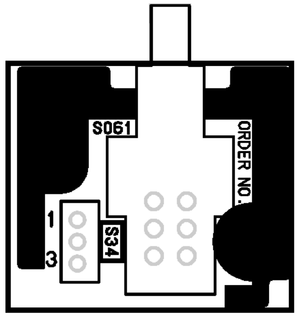
V1-BOARD(COMPONENT SIDE)
TXNV110QJS


V34
D1550
1
8
R1554 R1553
R1555
D1553
D1552
V1
1
R1510
R1511
R1512
R1513
R1514

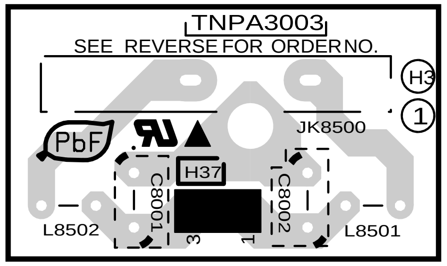
S1-BOARD(FOIL SIDE)
TNPA2868AB

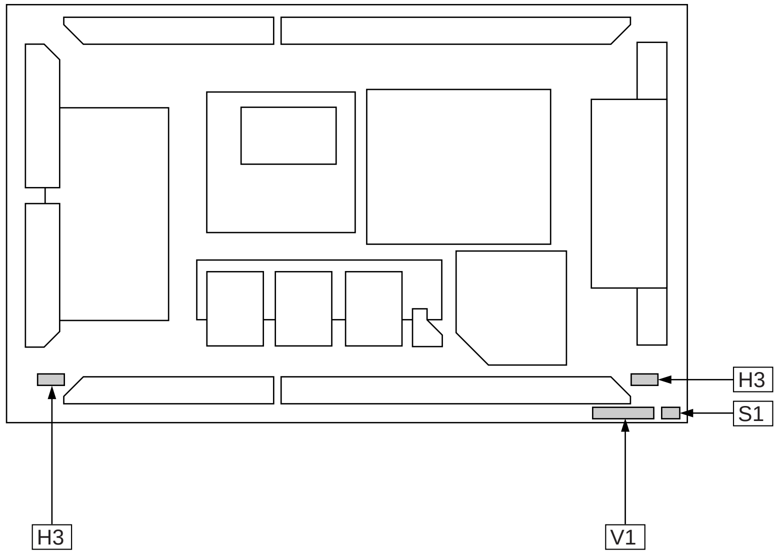

TNPA2868
SEE REVERSE FOR ORDER NO.
S061
PbF
1
3
S34
S1
1

S1-BOARD(COMPONENT SIDE)
TNPA2868AB


S061
ORDER NO.
1
3
S34

H3-BOARD
TNPA3003


TNPA3003
SEE REVERSE FOR ORDER NO.
H3
1
PbF
JK8500
H37
C8001
C8002
L8502
L8501
3
1



TH-42PHD6UY
V1-BOARD TXNV110QJS
S1-BOARD TNPA2868AB
H3-BOARD TNPA3003

TH-42PHD6UY
V1-BOARD TXNV110QJS
S1-BOARD TNPA2868AB
H3-BOARD TNPA3003

6

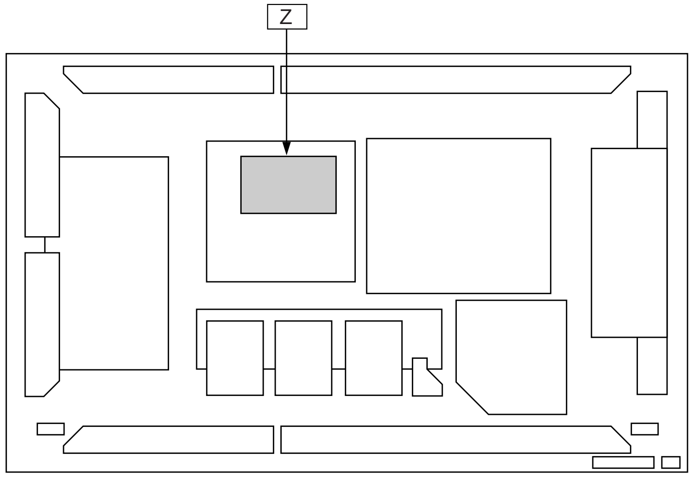
5

4

3

2

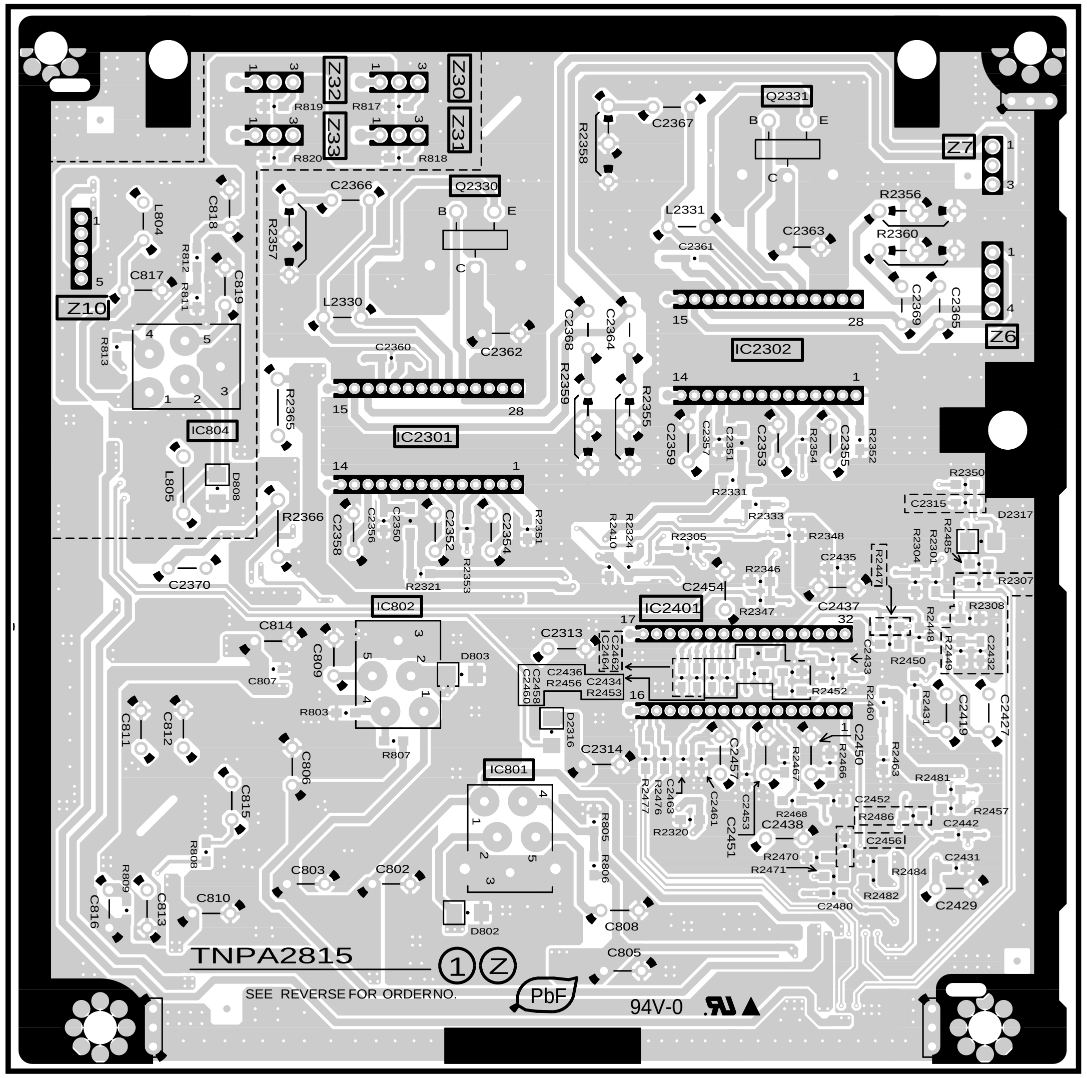
1



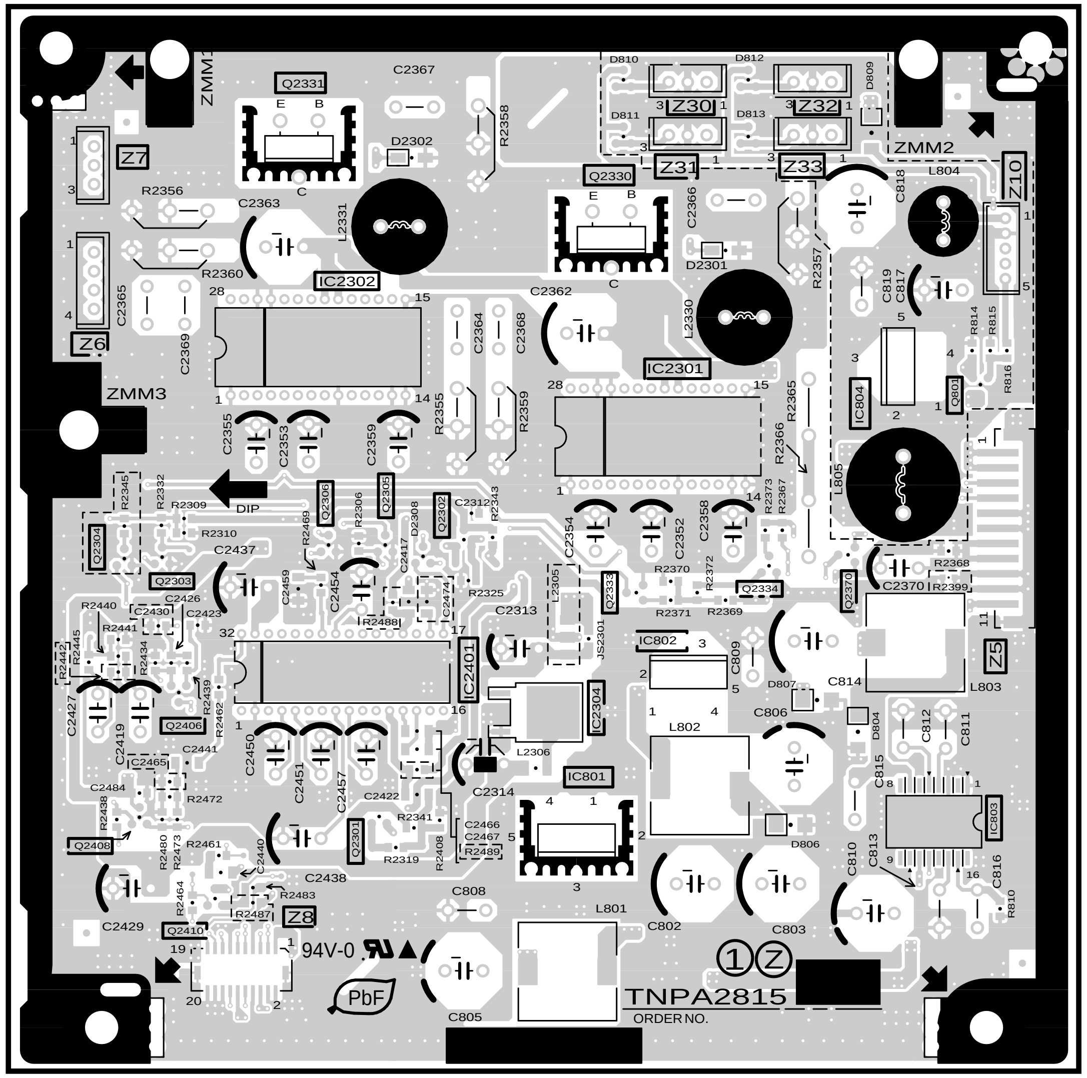
Parts Location

Z-BOARD			
IC		**TRANSISTOR**	
IC2301	B-3	Q2301	F-2
IC2301	G-3	Q2302	F-3
IC2302	C-3	Q2303	F-3
IC2302	F-4	Q2304	E-3
IC2304	G-2	Q2305	F-3
IC2401	C-2	Q2306	F-3
IC2401	F-2	Q2330	B-4
IC801	B-2	Q2330	G-4
IC801	G-2	Q2331	C-4
IC802	B-2	Q2331	F-4
IC802	G-2	Q2333	G-3
IC803	H-2	Q2334	G-3
IC804	A-3	Q2370	H-3
IC804	H-3	Q2406	F-2
		Q2408	E-2
		Q2410	F-2
		Q801	H-3

Z-BOARD(FOIL SIDE)
TNPA2815

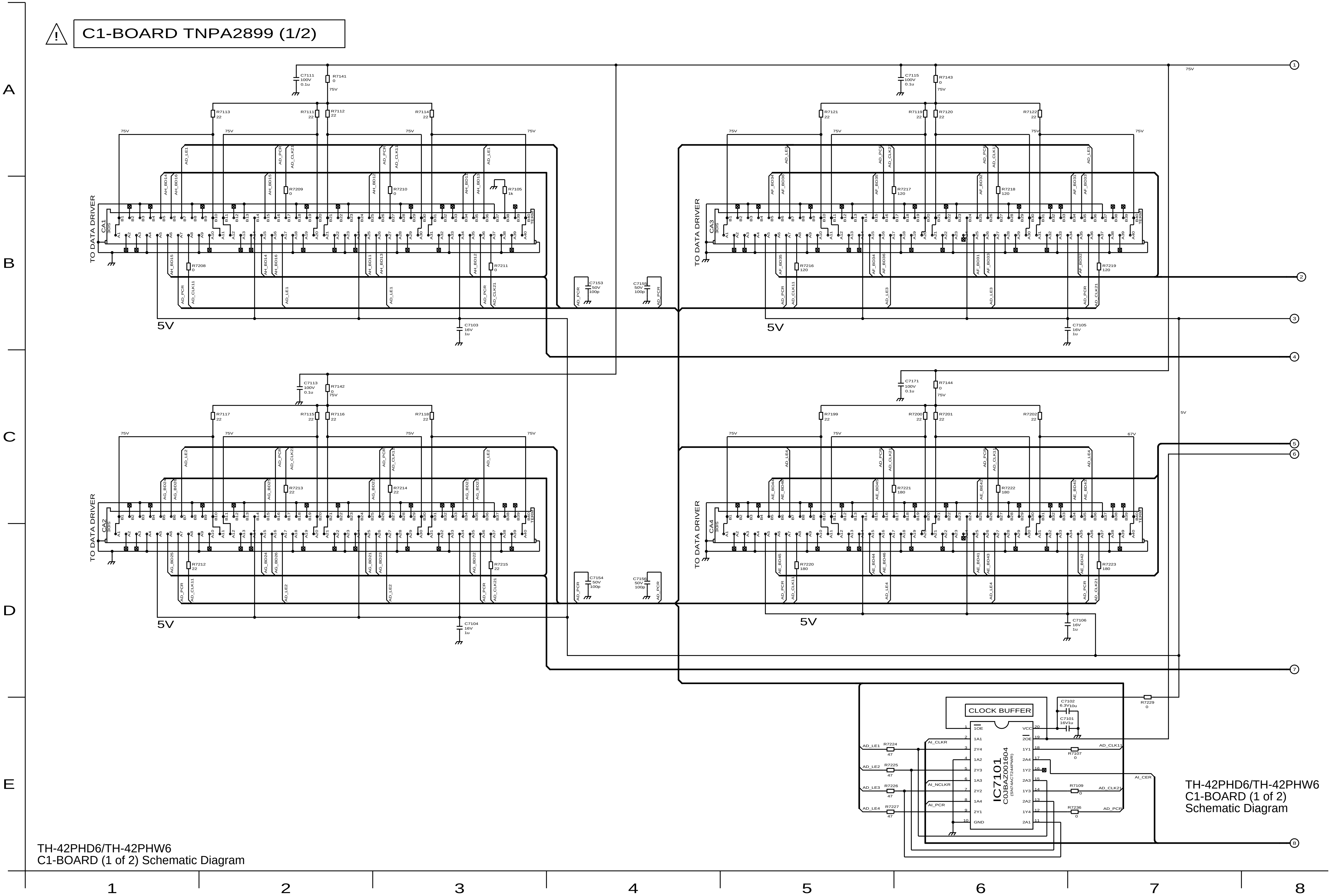

Z32
Z30
Z33
Z31
Z7
Z6
Z10
Q2331
Q2330
IC2302
IC2301
IC804
IC802
IC2401
IC801
L804
L805
L2330
L2331
R2358
C2367
C2366
R2357
R2356
R2360
C2363
C2362
C2370
R2365
R2366
C2313
C2314
C2437
C2454
C2429
C808
C805
C802
C803
C810
C816
C813
D802
D803
TNPA2815
SEE REVERSE FOR ORDER NO.
PbF
94V-0

Z-BOARD(COMPONENT SIDE)
TNPA2815


ZMM1
ZMM2
ZMM3
Z7
Z6
Z30
Z32
Z31
Z33
Z10
Z5
Z8
Q2331
Q2330
IC2302
IC2301
IC804
Q801
IC802
IC2401
IC801
IC803
IC2304
Q2306
Q2305
Q2302
Q2304
Q2303
Q2333
Q2334
Q2370
Q2406
Q2408
Q2410
Q2301
D2302
D2301
L2331
L2330
L804
L805
L803
L802
L801
L2306
C2367
C2363
C2362
C2370
C2314
C2438
C2429
C808
C805
C802
C803
C810
C814
C806
DIP
TNPA2815
ORDER NO.
PbF
94V-0

A	B	C	D	E	F	G	H	I

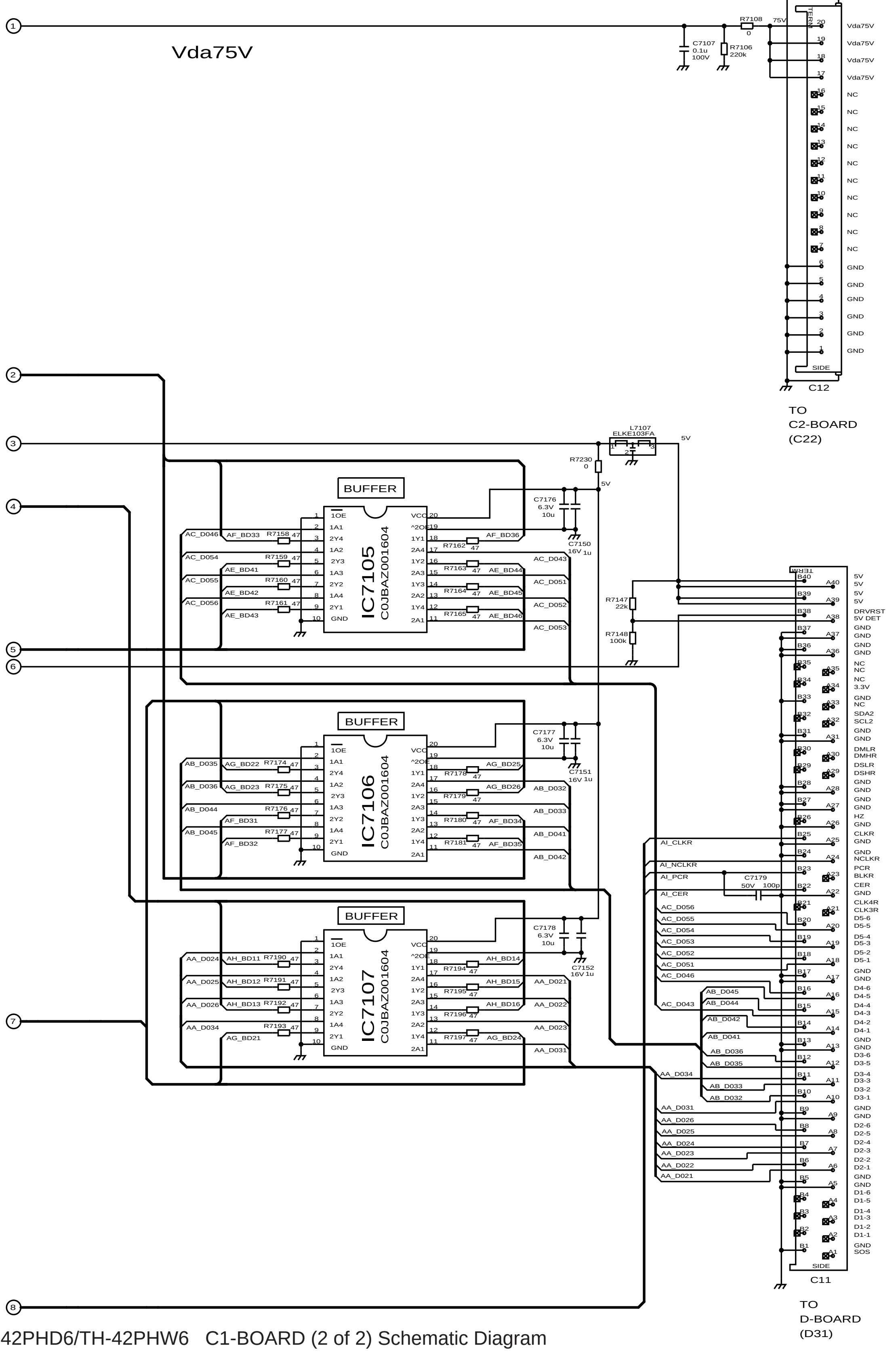
TH-42PHD6UY
Z-BOARD TNPA2815


C1-BOARD TNPA2899 (1/2)
TO DATA DRIVER
CA1
CA2
CA3
CA4
5V
75V
67V
CLOCK BUFFER
IC7101
C0JBAZ001604
(SN74ACT244PWR)
AD_LE1
AD_LE2
AD_LE3
AD_LE4
AD_PCR
AD_CLK11
AD_CLK21
AI_CLKR
AI_NCLKR
AI_PCR
AI_CER
R7224 47
R7225 47
R7226 47
R7227 47
R7107 0
R7109 0
R7236 0
R7229 0
C7102 6.3V 10u
C7101 16V 1u
C7103 16V 1u
C7104 16V 1u
C7105 16V 1u
C7106 16V 1u
C7111 100V 0.1u
C7113 100V 0.1u
C7115 100V 0.1u
C7171 100V 0.1u
C7153 50V 100p
C7154 50V 100p
C7155 50V 100p
C7156 50V 100p
R7141 0
R7142 0
R7143 0
R7144 0
A
B
C
D
E
1
2
3
4
5
6
7
8

TH-42PHD6/TH-42PHW6
C1-BOARD (1 of 2) Schematic Diagram

TH-42PHD6/TH-42PHW6
C1-BOARD (1 of 2)
Schematic Diagram

C1-BOARD TNPA2899 (2/2)

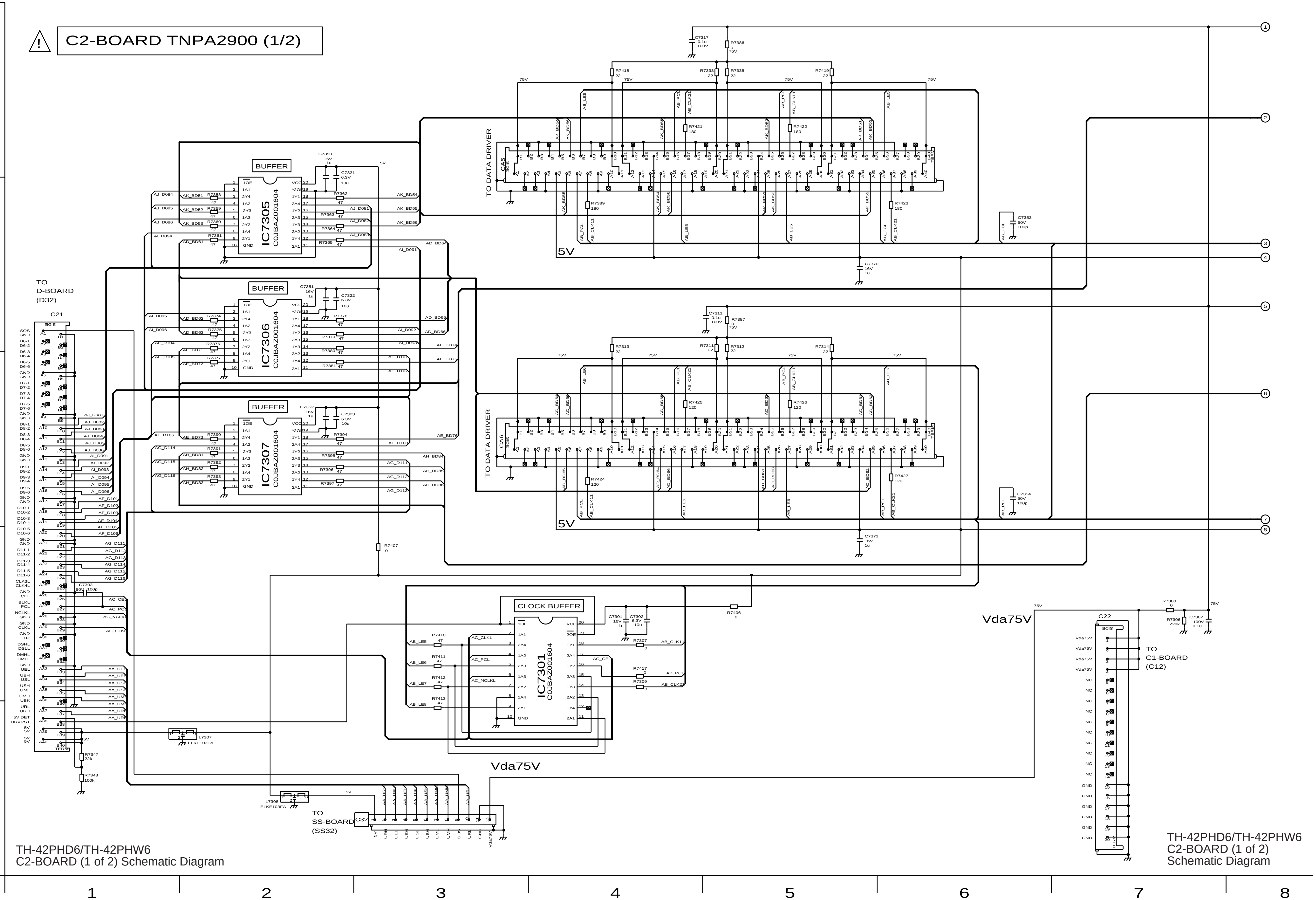


Vda75V
BUFFER
IC7105
C0JBAZ001604
IC7106
C0JBAZ001604
IC7107
C0JBAZ001604
C12
TO
C2-BOARD
(C22)
C11
TO
D-BOARD
(D31)
L7107
ELKE103FA
R7108
C7107
R7106
R7230
C7176
C7150
C7177
C7151
C7178
C7152
R7147
R7148
C7179
5V
SIDE

TH-42PHD6/TH-42PHW6 C1-BOARD (2 of 2) Schematic Diagram

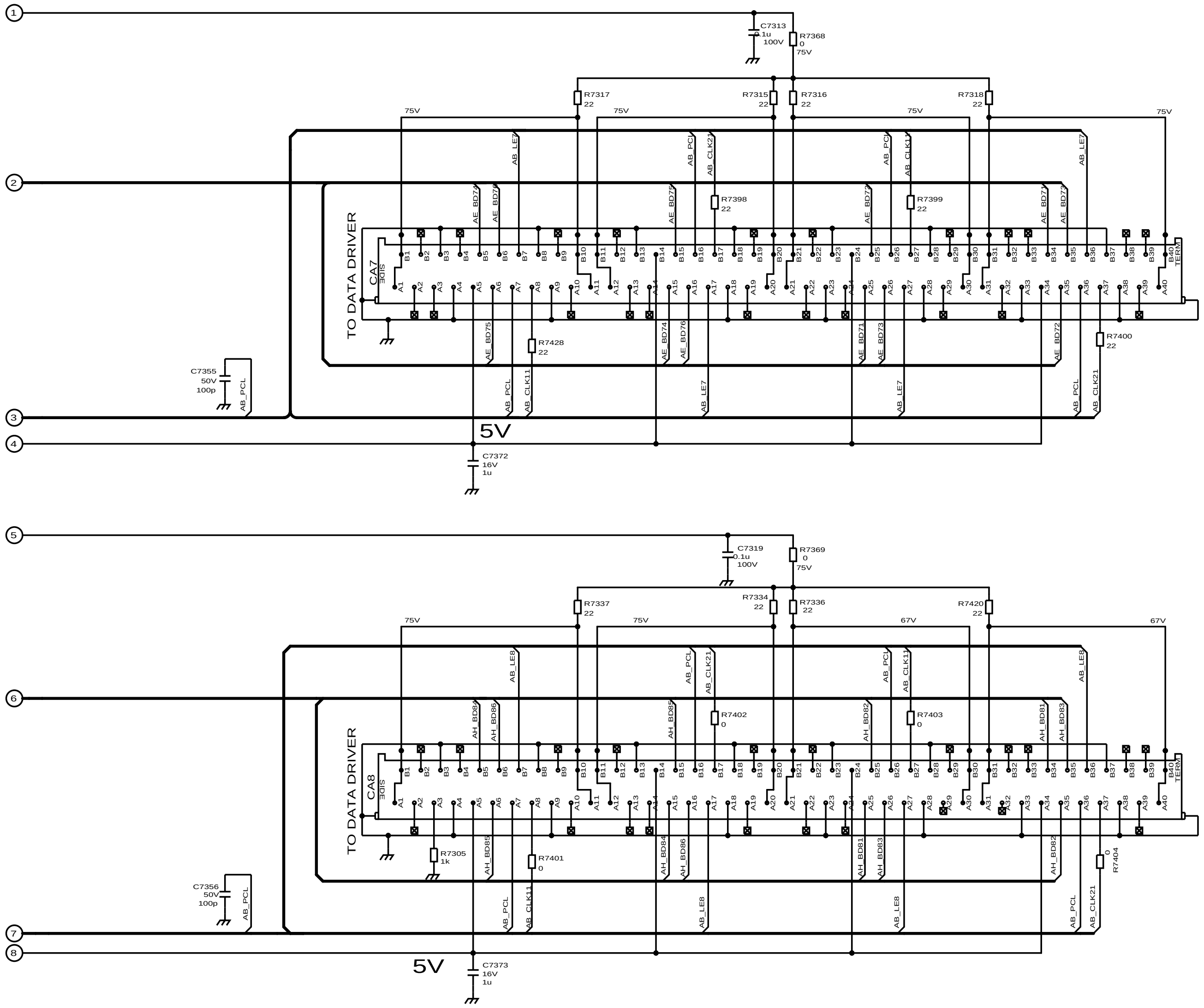
TH-42PHD6/TH-42PHW6
C1-BOARD (2 of 2) Schematic Diagram

C2-BOARD TNPA2900 (1/2)

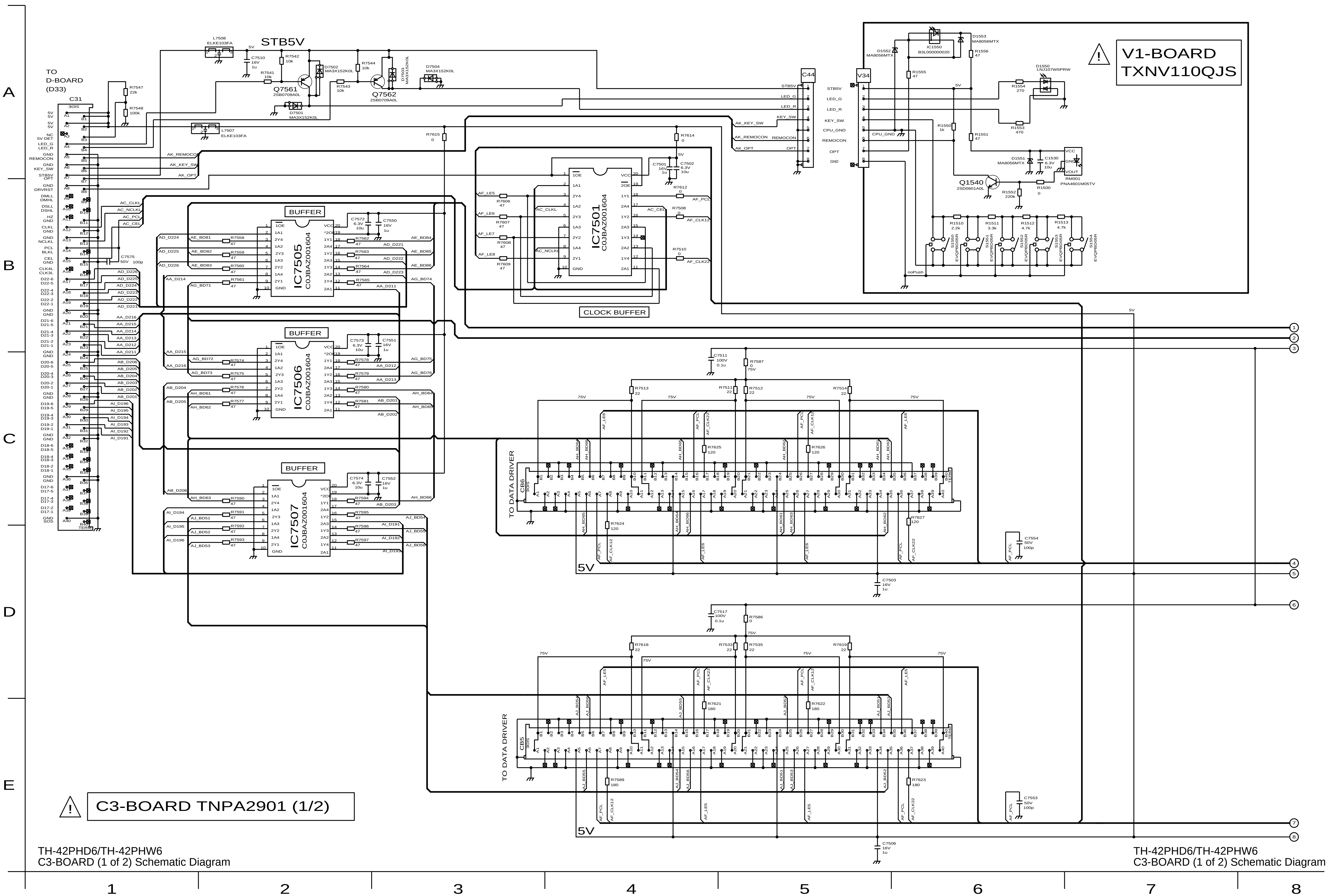

A
B
C
D
E
1
2
3
4
5
6
7
8
TO
D-BOARD
(D32)
C21
BUFFER
IC7305
C0JBAZ001604
BUFFER
IC7306
C0JBAZ001604
BUFFER
IC7307
C0JBAZ001604
TO DATA DRIVER
CA5
TO DATA DRIVER
CA6
5V
5V
CLOCK BUFFER
IC7301
C0JBAZ001604
Vda75V
Vda75V
C22
TO
C1-BOARD
(C12)
TO
SS-BOARD
(SS32)
C32
L7307
ELKE103FA
L7308
ELKE103FA

TH-42PHD6/TH-42PHW6
C2-BOARD (1 of 2) Schematic Diagram

TH-42PHD6/TH-42PHW6
C2-BOARD (1 of 2)
Schematic Diagram


TO DATA DRIVER
CA7
CA8
5V
75V
67V
C7313 0.1u 100V
R7368 0
R7317 22
R7315 22
R7316 22
R7318 22
R7398 22
R7399 22
R7428 22
R7400 22
C7355 50V 100p
C7372 16V 1u
C7319 0.1u 100V
R7369 0
R7337 22
R7334 22
R7336 22
R7420 22
R7402 0
R7403 0
R7305 1k
R7401 0
R7404 0
C7356 50V 100p
C7373 16V 1u
AB_PCL
AB_CLK11
AB_CLK21
AB_LE7
AB_LE8
AE_BD71
AE_BD72
AE_BD73
AE_BD74
AE_BD75
AE_BD76
AE_BD77
AH_BD81
AH_BD82
AH_BD83
AH_BD84
AH_BD85
AH_BD86
AH_BD87

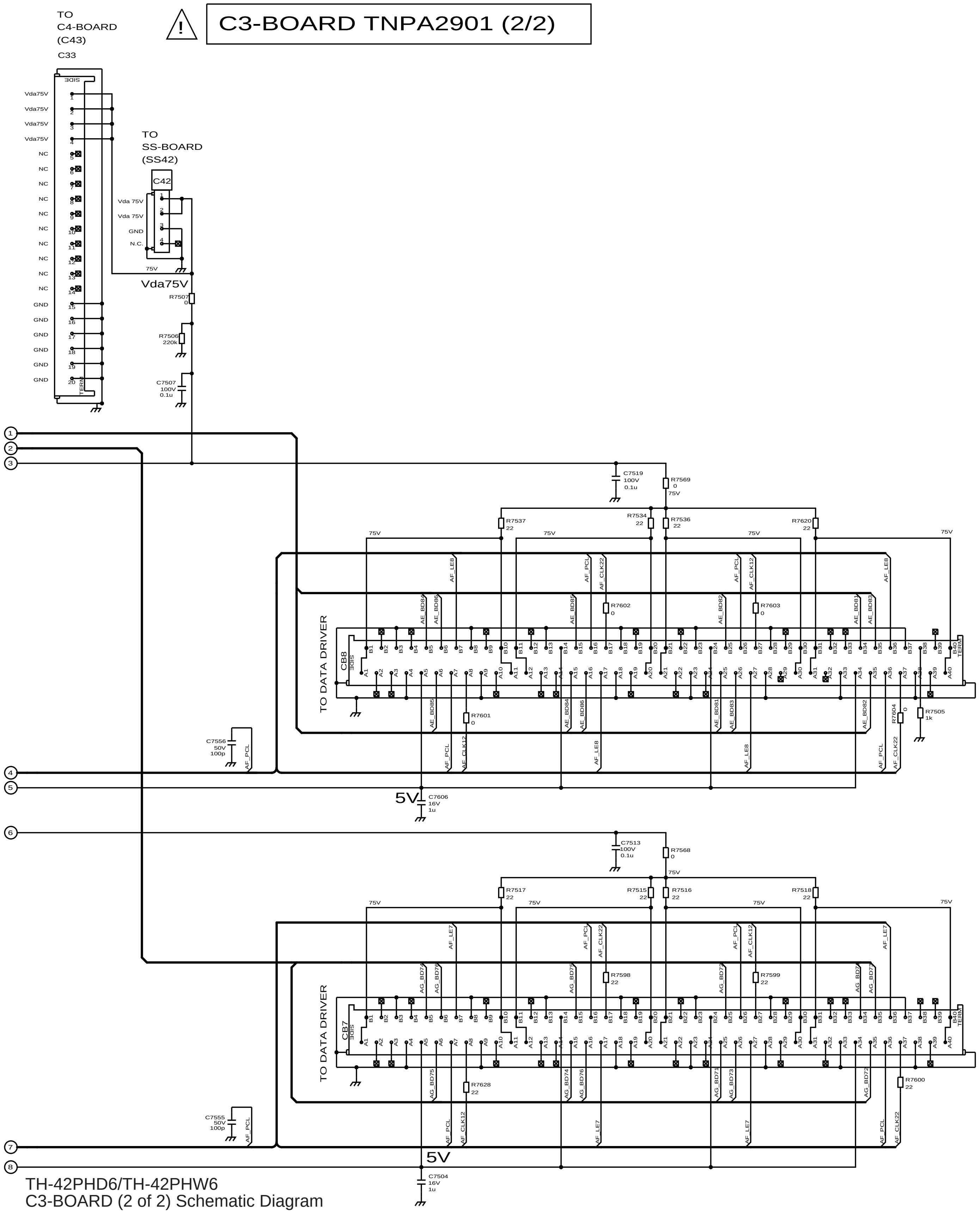
C2-BOARD TNPA2900 (2/2)


A
B
C
D
E
1
2
3
4
5
6
7
8
TO D-BOARD (D33)
C31
STB5V
L7508 ELKE103FA
L7507 ELKE103FA
Q7561 2SB0709A0L
Q7562 2SB0709A0L
D7501 MA3X152K0L
D7502 MA3X152K0L
D7503 MA3X152K0L
D7504 MA3X152K0L
C44
V34
V1-BOARD
TXNV110QJS
IC1550 B3L000000020
D1552 MA8056MTX
D1553 MA8056MTX
D1550 LNJ107W5PRW
D1551 MA8056MTX
Q1540 2SD0601A0L
RM001 PNA4601M05TV
S1550 EVQPBD05R
S1551 EVQPBD05R
S1552 EVQPBD05R
S1553 EVQPBD05R
S1554 EVQPBD05R
BUFFER
IC7505 C0JBAZ001604
BUFFER
IC7506 C0JBAZ001604
BUFFER
IC7507 C0JBAZ001604
IC7501 C0JBAZ001604
CLOCK BUFFER
TO DATA DRIVER
CB6
TO DATA DRIVER
CB5
5V
5V
75V
①
②
③
④
⑤
⑥
⑦
⑧

C3-BOARD TNPA2901 (1/2)

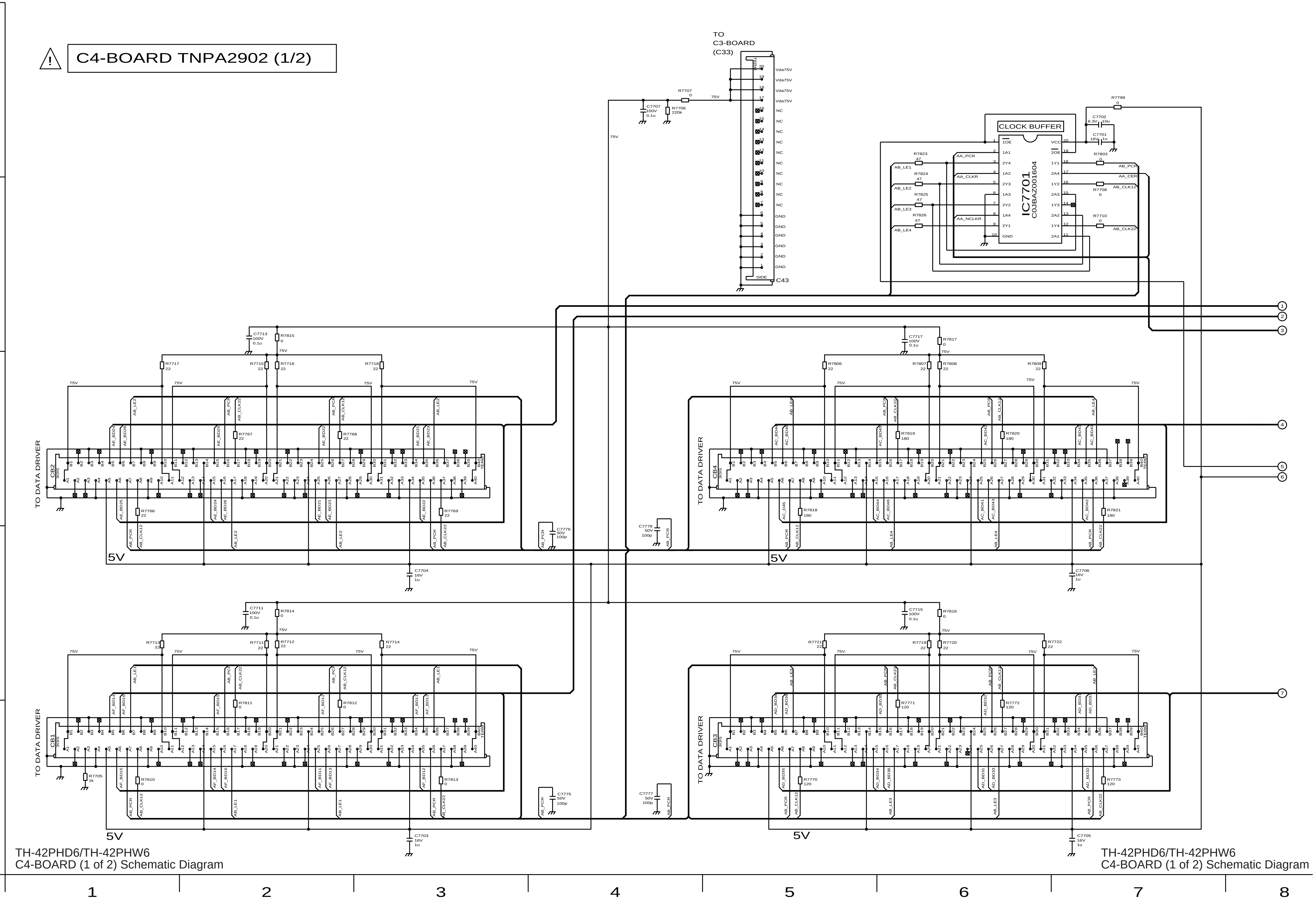
TH-42PHD6/TH-42PHW6
C3-BOARD (1 of 2) Schematic Diagram

TH-42PHD6/TH-42PHW6
C3-BOARD (1 of 2) Schematic Diagram


C3-BOARD TNPA2901 (2/2)
TO C4-BOARD (C43)
C33
TO SS-BOARD (SS42)
C42
Vda75V
NC
GND
Vda 75V
N.C.
75V
R7507 0
R7506 220k
C7507 100V 0.1u
C7519 100V 0.1u
R7569 0
R7537 22
R7534 22
R7536 22
R7620 22
R7602 0
R7603 0
R7601 0
R7604 0
R7505 1k
C7556 50V 100p
AF_PCL
AF_CLK12
AF_CLK22
AF_LE8
AE_BD81
AE_BD82
AE_BD83
AE_BD84
AE_BD85
AE_BD86
TO DATA DRIVER
CB8
CB7
5V
C7606 16V 1u
C7513 100V 0.1u
R7568 0
R7517 22
R7515 22
R7516 22
R7518 22
R7598 22
R7599 22
R7628 22
R7600 22
AF_LE7
AG_BD71
AG_BD72
AG_BD73
AG_BD74
AG_BD75
AG_BD76
C7555 50V 100p
C7504 16V 1u
TERM
SIDE
1
2
3
4
5
6
7
8

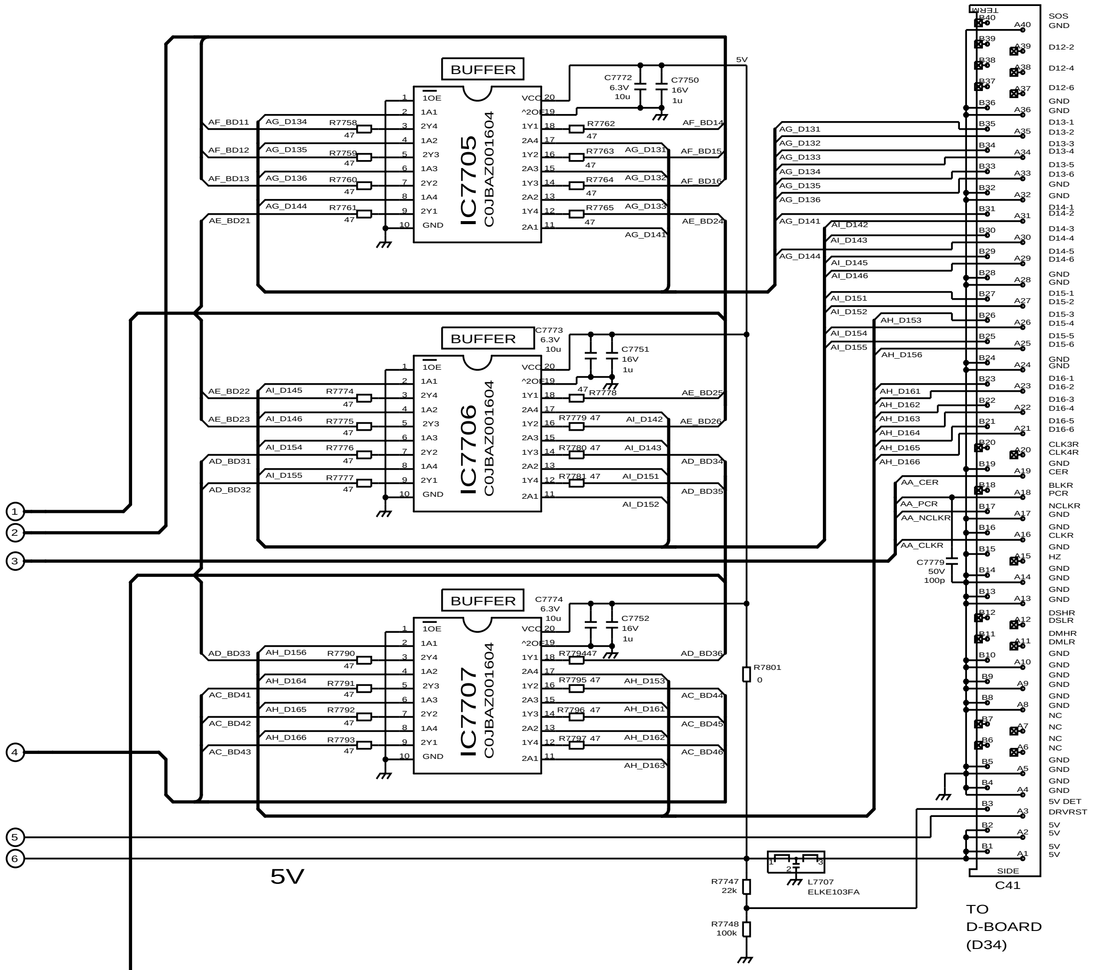
TH-42PHD6/TH-42PHW6
C3-BOARD (2 of 2) Schematic Diagram

C4-BOARD TNPA2902 (1/2)


A
B
C
D
E
1
2
3
4
5
6
7
8
TO
C3-BOARD
(C33)
C43
Vda75V
NC
GND
SIDE
R7707
0
75V
C7707
100V
0.1u
R7706
220k
CLOCK BUFFER
IC7701
C0JBAZ001604
1OE
1A1
2Y4
1A2
2Y3
1A3
2Y2
1A4
2Y1
GND
VCC
2OE
1Y1
2A4
1Y2
2A3
1Y3
2A2
1Y4
2A1
R7799
C7702
6.3V
10u
C7701
16V
1u
R7823
R7824
R7825
R7826
47
R7803
R7708
R7710
AA_PCR
AA_CLKR
AA_NCLKR
AA_CER
AB_PCR
AB_CLK12
AB_CLK22
AB_LE1
AB_LE2
AB_LE3
AB_LE4
CB1
CB2
CB3
CB4
TO DATA DRIVER
5V
C7703
C7704
C7705
C7706
16V
1u
C7711
C7713
C7715
C7717
100V
0.1u
C7775
C7776
C7777
C7778
50V
100p
R7705
1k
R7814
R7815
R7816
R7817
R7711
R7712
R7713
R7714
R7715
R7716
R7717
R7718
22
R7719
R7720
R7721
R7722
R7806
R7807
R7808
R7809
R7766
R7767
R7768
R7769
R7810
R7811
R7812
R7813
R7770
R7771
R7772
R7773
120
R7818
R7819
R7820
R7821
180
AE_BD21
AE_BD22
AE_BD23
AE_BD24
AE_BD25
AE_BD26
AF_BD11
AF_BD12
AF_BD13
AF_BD14
AF_BD15
AF_BD16
AC_BD41
AC_BD42
AC_BD43
AC_BD44
AC_BD45
AC_BD46
AD_BD31
AD_BD32
AD_BD33
AD_BD34
AD_BD35
AD_BD36
①
②
③
④
⑤
⑥
⑦

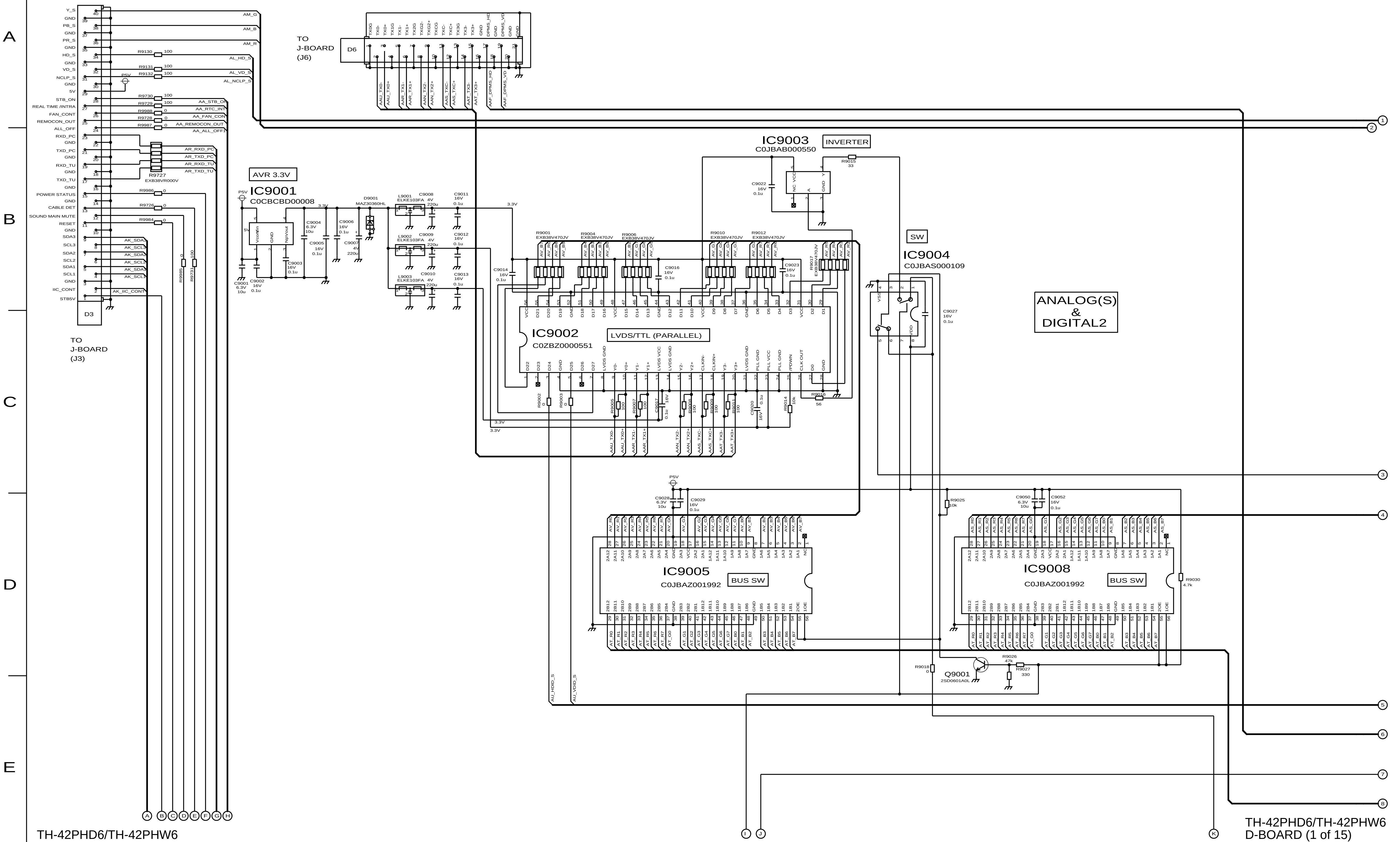
TH-42PHD6/TH-42PHW6
C4-BOARD (1 of 2) Schematic Diagram

TH-42PHD6/TH-42PHW6
C4-BOARD (1 of 2) Schematic Diagram


BUFFER
IC7705
C0JBAZ001604
BUFFER
IC7706
C0JBAZ001604
BUFFER
IC7707
C0JBAZ001604
C7772 6.3V 10u
C7750 16V 1u
C7773 6.3V 10u
C7751 16V 1u
C7774 6.3V 10u
C7752 16V 1u
R7801 0
R7747 22k
R7748 100k
L7707 ELKE103FA
C7779 50V 100p
C41
SIDE
TO
D-BOARD
(D34)
5V
1
2
3
4
5
6
7

⚠ C4-BOARD TNPA2902 (2/2)

D-BOARD TZTNP01QJSU (1/15)

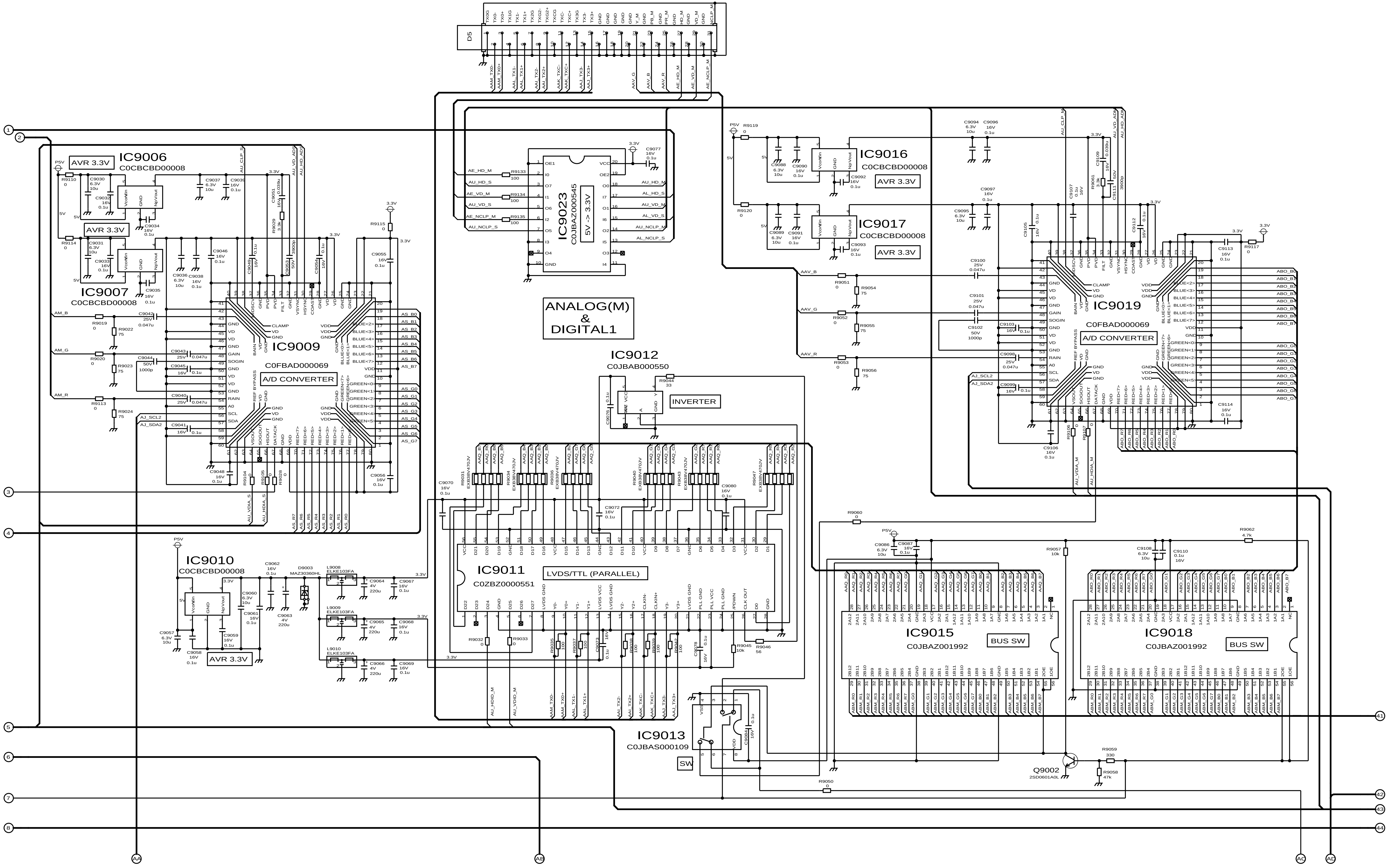


TO
J-BOARD
(J3)
D3
Y_S
PB_S
PR_S
HD_S
VD_S
NCLP_S
5V
STB_ON
REAL TIME /INTRA
FAN_CONT
REMOCON_OUT
ALL_OFF
RXD_PC
TXD_PC
RXD_TU
TXD_TU
POWER STATUS
CABLE DET
SOUND MAIN MUTE
RESET
SDA3
SCL3
SDA2
SCL2
SDA1
SCL1
IIC_CONT
STB5V
R9727
EXB38V000V
TO
J-BOARD
(J6)
D6
AVR 3.3V
IC9001
C0CBCBD00008
D9001
MAZ30360HL
L9001
ELKE103FA
L9002
ELKE103FA
L9003
ELKE103FA
IC9002
C0ZBZ0000551
LVDS/TTL (PARALLEL)
IC9003
C0JBAB000550
INVERTER
IC9004
C0JBAS000109
SW
ANALOG(S)
&
DIGITAL2
IC9005
C0JBAZ001992
BUS SW
IC9008
C0JBAZ001992
BUS SW
Q9001
2SD0601A0L
AU_HDID_S
AU_VDID_S
A
B
C
D
E
1
2
3
4
5
6
7
8

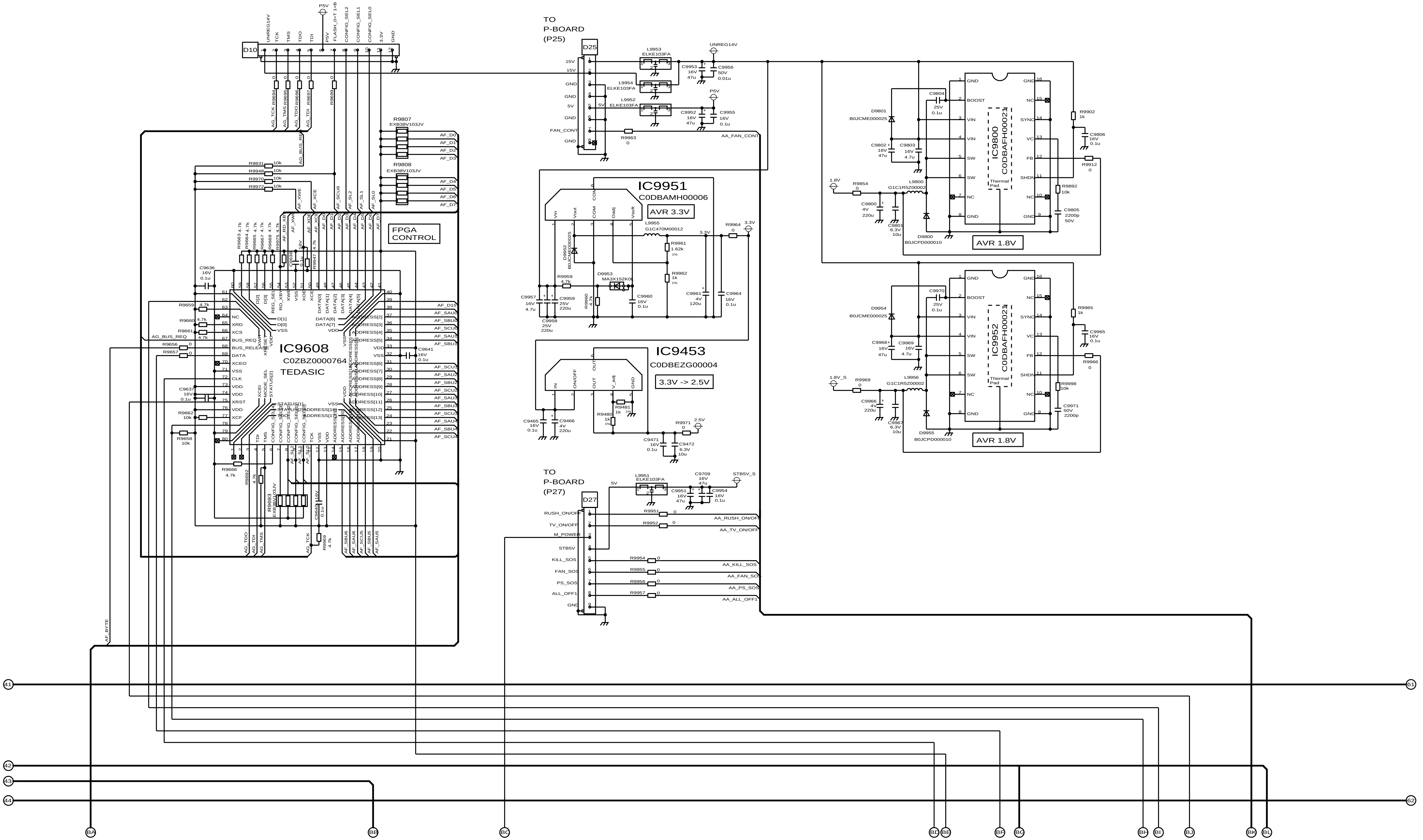
TH-42PHD6/TH-42PHW6
D-BOARD (1 of 15) Schematic Diagram

TH-42PHD6/TH-42PHW6
D-BOARD (1 of 15)
Schematic Diagram

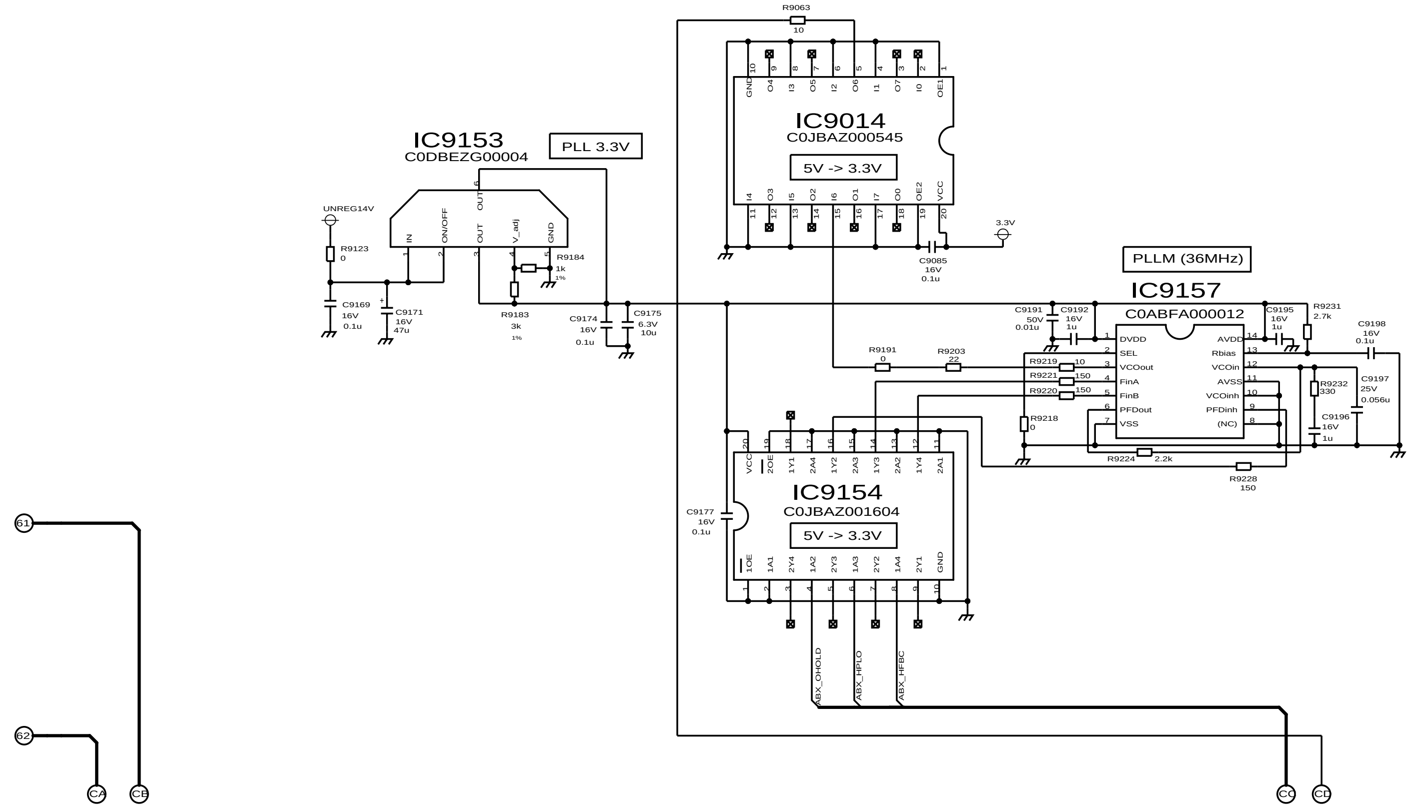
D-BOARD TZTNP01QJSU (2/15)


IC9006
C0CBCBD00008
AVR 3.3V
IC9007
C0CBCBD00008
AVR 3.3V
IC9009
C0FBAD000069
A/D CONVERTER
IC9010
C0CBCBD00008
AVR 3.3V
D9003
MAZ30360HL
L9008
ELKE103FA
L9009
ELKE103FA
L9010
ELKE103FA
D5
IC9023
C0JBAZ000545
5V -> 3.3V
ANALOG(M)
&
DIGITAL1
IC9012
C0JBAB000550
INVERTER
IC9011
C0ZBZ0000551
LVDS/TTL (PARALLEL)
IC9013
C0JBAS000109
SW
IC9016
C0CBCBD00008
AVR 3.3V
IC9017
C0CBCBD00008
AVR 3.3V
IC9019
C0FBAD000069
A/D CONVERTER
IC9015
C0JBAZ001992
BUS SW
IC9018
C0JBAZ001992
BUS SW
Q9002
2SD0601A0L
P5V
3.3V
5V
AA
AB
AC
AD
1
2
3
4
5
6
7
8
41
42
43
44

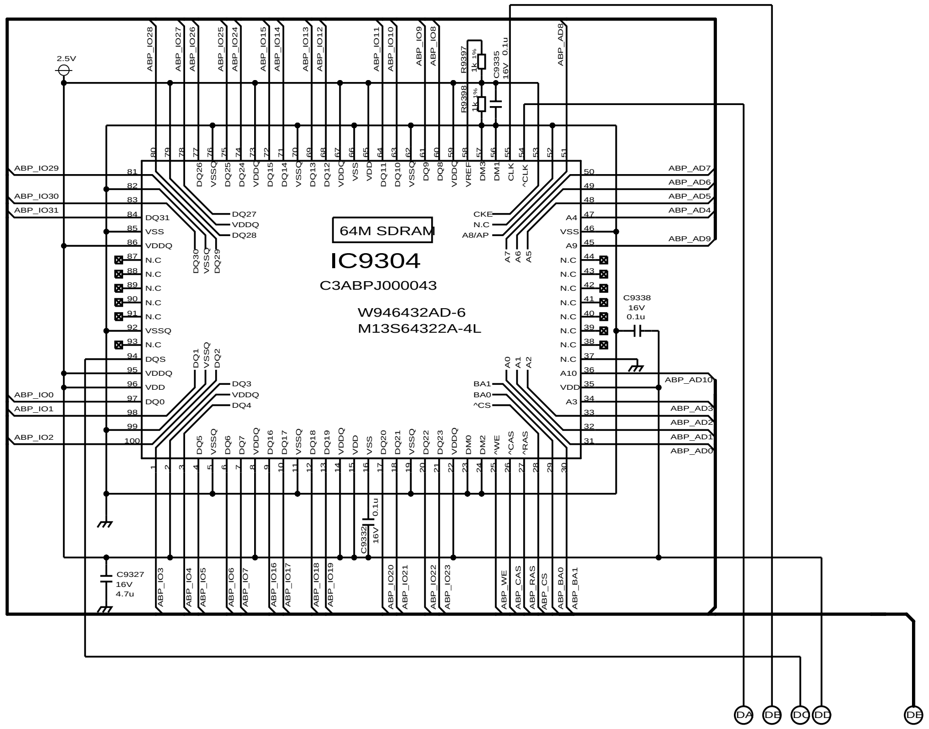
D-BOARD TZTNP01QJSU (3/15)


D10
UNREG14V
TCK
TMS
TDO
TDI
P5V
FLASH_0=T 1=B
CONFIG_SEL2
CONFIG_SEL1
CONFIG_SEL0
3.3V
GND
R9807
EXB38V103JV
R9808
EXB38V103JV
AF_D0
AF_D1
AF_D2
AF_D3
AF_D4
AF_D5
AF_D6
AF_D7
FPGA CONTROL
IC9608
C0ZBZ0000764
TEDASIC
AG_BUS_REQ
AF_BYTE
AF_SBU0
AF_SAU0
AF_SCU0
AF_SAU1
AF_SBU1
AF_SCU1
AF_SAU2
AF_SBU2
AF_SCU2
AF_SAU3
AF_SCU3
AF_SBU3
AF_SAU4
AF_SBU4
AF_SCU4
AG_TDO
AG_TDI
AG_TMS
AG_TCK
AF_SBU6
AF_SAU6
AF_SCU5
AF_SBU5
AF_SAU5
R9693
EXB38V103JV
TO P-BOARD (P25)
D25
15V
GND
5V
FAN_CONT
L9953 ELKE103FA
L9954 ELKE103FA
L9952 ELKE103FA
UNREG14V
P5V
R9963 0
AA_FAN_CONT
IC9951
C0DBAMH00006
AVR 3.3V
Vin
Vout
COM
Oadj
Vsoft
L9955
G1C470M00012
3.3V
R9964 0
R9961 1.62k
R9962 1k
D9952
D9953 MA3X152K0L
IC9453
C0DBEZG00004
3.3V -> 2.5V
IN
ON/OFF
OUT
V_adj
GND
R9971 0
2.5V
TO P-BOARD (P27)
D27
L9951 ELKE103FA
STB5V_S
RUSH_ON/OFF
TV_ON/OFF
M_POWER
STB5V
KILL_SOS
FAN_SOS
PS_SOS
ALL_OFF1
GND
AA_RUSH_ON/OFF
AA_TV_ON/OFF
AA_KILL_SOS
AA_FAN_SOS
AA_PS_SOS
AA_ALL_OFF1
IC9800
C0DBAFH00021
GND
BOOST
VIN
SW
NC
SYNC
VC
FB
SHDN
Thermal Pad
D9801 B0JCME000025
L9800 G1C1R5Z00002
D9800 B0JCPD000010
1.8V
R9854 0
AVR 1.8V
IC9952
C0DBAFH00021
D9954 B0JCME000025
L9956 G1C1R5Z00002
D9955 B0JCPD000010
1.8V_S
R9969 0
AVR 1.8V
41
42
43
44
61
62
BA
BB
BC
BD
BE
BF
BG
BH
BI
BJ
BK
BL

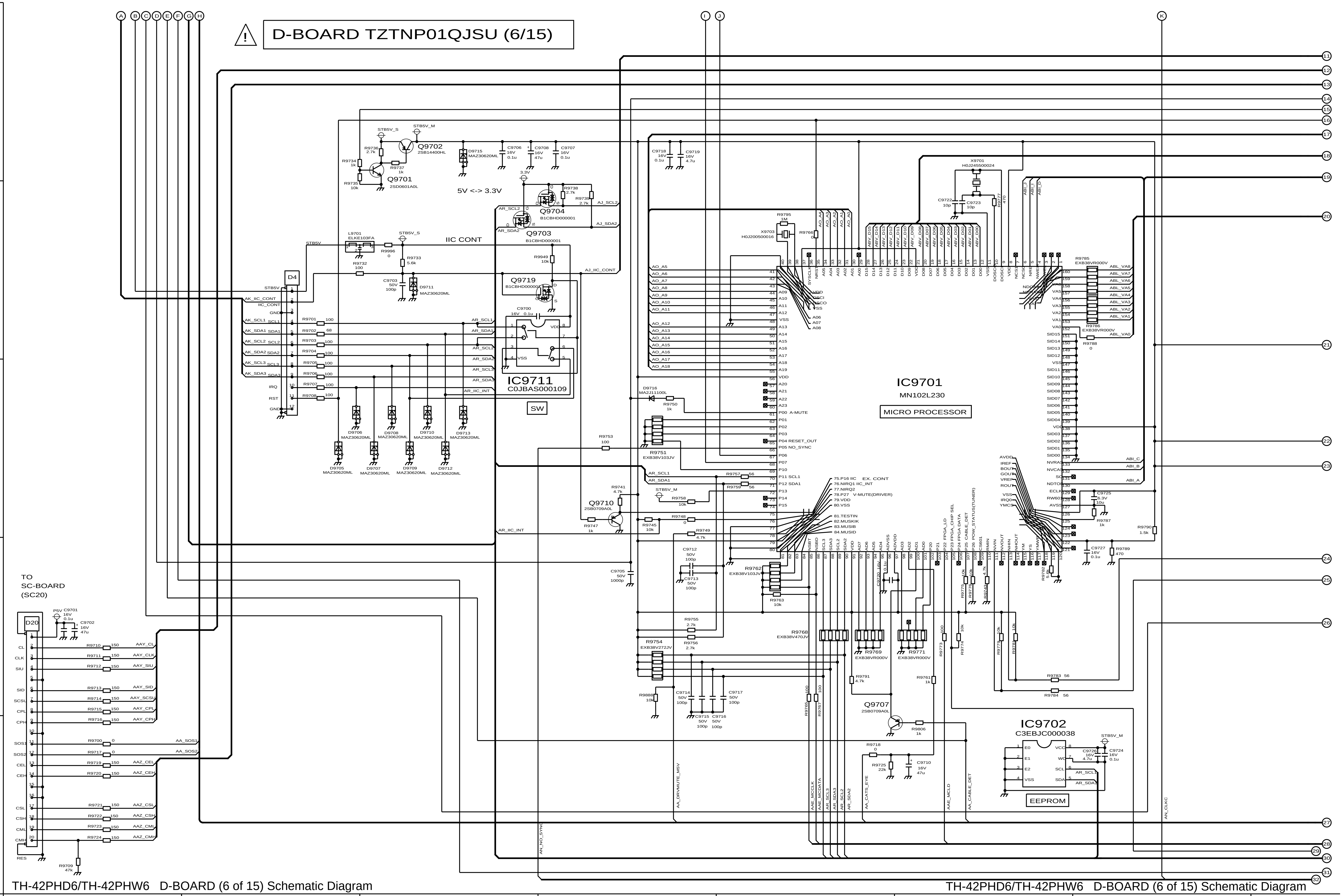
⚠ D-BOARD TZTNP01QJSU (4/15)


IC9153
C0DBEZG00004
PLL 3.3V
IN
ON/OFF
OUT
V_adj
GND
UNREG14V
R9123
0
C9169
16V
0.1u
C9171
16V
47u
R9183
3k
1%
R9184
1k
1%
C9174
16V
0.1u
C9175
6.3V
10u
R9063
10
IC9014
C0JBAZ000545
5V -> 3.3V
GND
O4
I3
O5
I2
O6
I1
O7
I0
OE1
I4
O3
I5
O2
I6
O1
I7
O0
OE2
VCC
3.3V
C9085
16V
0.1u
PLLM (36MHz)
IC9157
C0ABFA000012
DVDD
SEL
VCOout
FinA
FinB
PFDout
VSS
AVDD
Rbias
VCOin
AVSS
VCOinh
PFDinh
(NC)
C9191
50V
0.01u
C9192
16V
1u
C9195
16V
1u
R9231
2.7k
C9198
16V
0.1u
R9191
0
R9203
22
R9219
10
R9221
150
R9220
150
R9218
0
R9232
330
C9197
25V
0.056u
C9196
16V
1u
R9224
2.2k
R9228
150
IC9154
C0JBAZ001604
5V -> 3.3V
VCC
2OE
1Y1
2A4
1Y2
2A3
1Y3
2A2
1Y4
2A1
1OE
1A1
2Y4
1A2
2Y3
1A3
2Y2
1A4
2Y1
GND
C9177
16V
0.1u
ABX_OHOLD
ABX_HPLO
ABX_HFBC
G1
G2
CA
CB
CC
CD

D-BOARD TZTNP01QJSU (5/15)

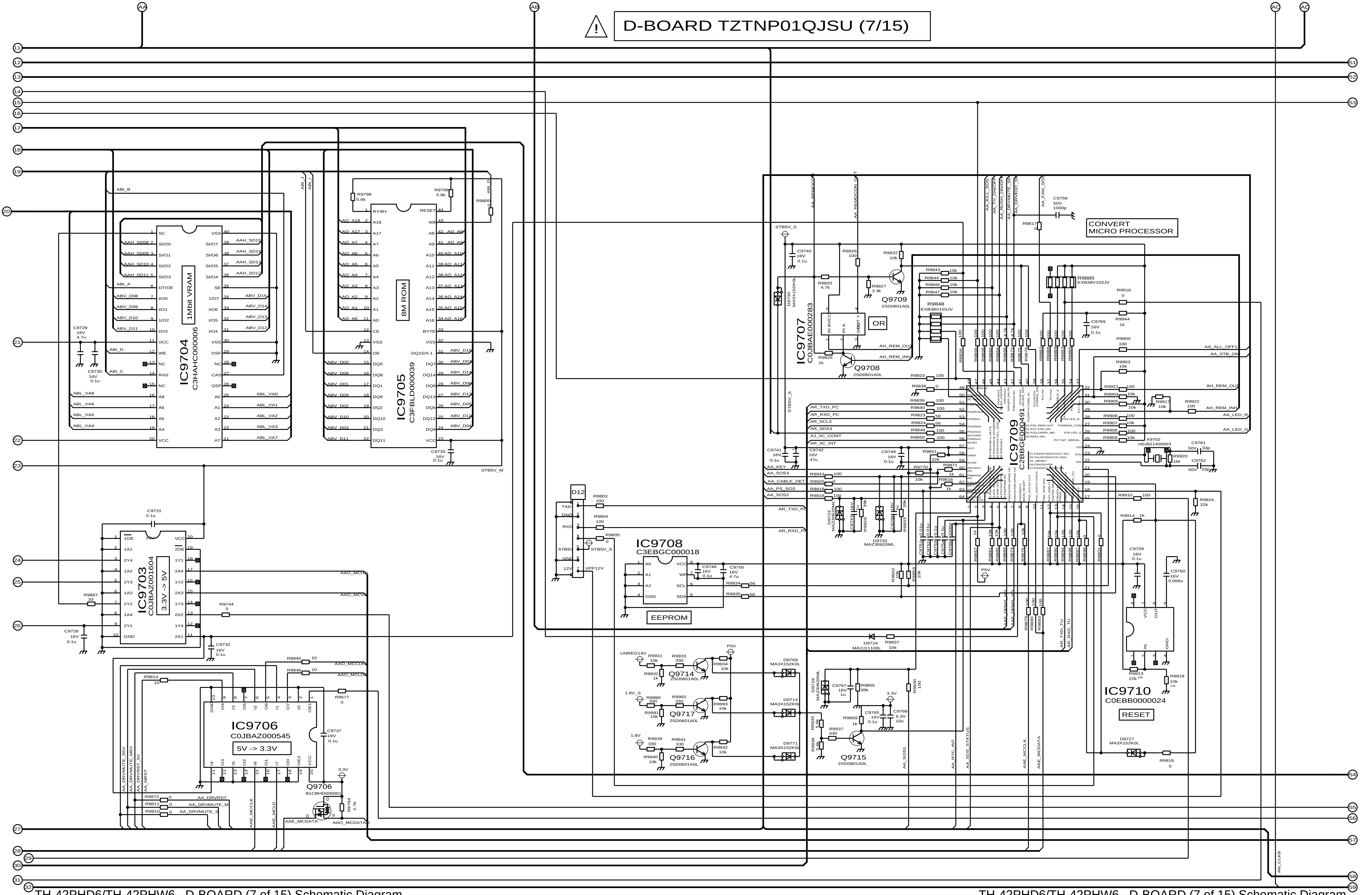

64M SDRAM
IC9304
C3ABPJ000043
W946432AD-6
M13S64322A-4L
2.5V
C9338
16V
0.1u
C9327
16V
4.7u
ABP_IO29
ABP_IO30
ABP_IO31
ABP_IO0
ABP_IO1
ABP_IO2
ABP_AD7
ABP_AD6
ABP_AD5
ABP_AD4
ABP_AD9
ABP_AD10
ABP_AD3
ABP_AD2
ABP_AD1
ABP_AD0
ABP_WE
ABP_CAS
ABP_RAS
ABP_CS
ABP_BA0
ABP_BA1
DA
DB
DC
DD
DE

D-BOARD TZTNP01QJSU (6/15)

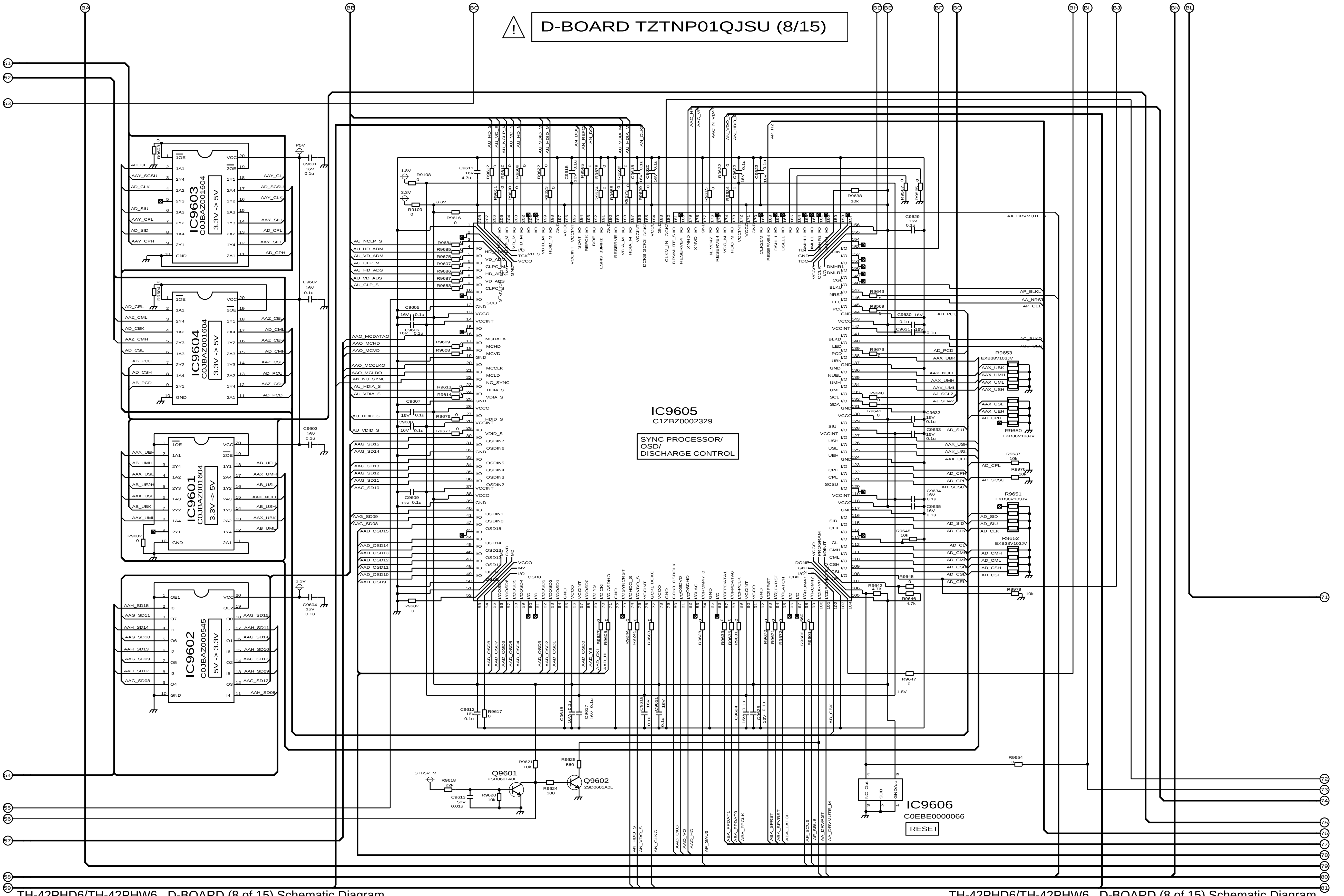


TO
SC-BOARD
(SC20)
D20
D4
IIC CONT
5V <-> 3.3V
Q9701
2SD0601A0L
Q9702
2SB14400HL
Q9703
B1CBHD000001
Q9704
B1CBHD000001
Q9719
B1CBHD000001
Q9710
2SB0709A0L
Q9707
2SB0709A0L
IC9711
C0JBAS000109
SW
IC9701
MN102L230
MICRO PROCESSOR
IC9702
C3EBJC000038
EEPROM
X9701
H0J245500024
X9703
H0J200500016
L9701
ELKE103FA
D9715
MAZ30620ML
D9711
MAZ30620ML
D9705
D9706
D9707
D9708
D9709
D9710
D9712
D9713
D9716
MA2J1110L
R9751
EXB38V103JV
R9754
EXB38V272JV
R9762
EXB38V103JV
R9768
EXB38V470JV
R9769
EXB38VR000V
R9771
EXB38VR000V
R9785
EXB38VR000V
R9786
EXB38VR000V
STB5V
STB5V_S
STB5V_M
P5V
3.3V
AK_IIC_CONT
AK_SCL1
AK_SDA1
AK_SCL2
AK_SDA2
AK_SCL3
AK_SDA3
AR_SCL1
AR_SDA1
AR_SCL2
AR_SDA2
AR_SCL3
AR_SDA3
AR_IIC_INT
AJ_SCL2
AJ_SDA2
AJ_IIC_CONT
AAY_CL
AAY_CLK
AAY_SIU
AAY_SID
AAY_SCSU
AAY_CPL
AAY_CPH
AA_SOS1
AA_SOS2
AAZ_CEL
AAZ_CEH
AAZ_CSL
AAZ_CSH
AAZ_CML
AAZ_CMH
AA_DRVMUTE_M5V
AN_NO_SYNC
AAE_MCCLK
AAE_MCDATA
AA_CATS_EYE
AAE_MCLD
AA_CABLE_DET
AN_CLKC
ABL_VA0
ABL_VA1
ABL_VA2
ABL_VA3
ABL_VA4
ABL_VA5
ABL_VA6
ABL_VA7
ABL_VA8
ABI_A
ABI_B
ABI_C
P00 A-MUTE
P04 RESET_OUT
P05 NO_SYNC
75.P16 IIC EX. CONT
76.NIRQ1 IIC_INT
77.NIRQ2
78.P27 V-MUTE(DRIVER)
79.VDD
80.VSS
81.TESTIN
82.MUSKIK
83.MUSIB
84.MUSID
P21 FPGA_LD
P22 FPGA_CHIP SEL
P23 FPGA DATA
P24 CABLE_DET
P26 POW_STATUS(TUNER)
A
B
C
D
E
F
G
H
I
J
K
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32

D-BOARD TZTNP01QJSU (7/15)


IC9704
C3HAHC000006
1Mbit VRAM
IC9705
C3FBLD000039
8M ROM
IC9703
C0JBAZ001604
3.3V -> 5V
IC9706
C0JBAZ000545
5V -> 3.3V
Q9706
B1CBHD000001
IC9708
C3EBGC000018
EEPROM
IC9707
C0JBAE000283
OR
Q9708
2SD0601A0L
Q9709
2SD0601A0L
IC9709
C2BGF000491
CONVERT
MICRO PROCESSOR
IC9710
C0EBB0000024
RESET
Q9714
2SD0601A0L
Q9717
2SD0601A0L
Q9716
2SD0601A0L
Q9715
2SD0601A0L
X9702
H0J921400003
D9724
MA2J11100L
D9727
MA3X152K0L
D9769
MA3X152K0L
D9714
MA3X152K0L
D9771
MA3X152K0L
D9720
MAZ30620ML
D9730
MA3X152K0L
D12
TXD
GND
RXD
STB5V
GND
12V
VPP12V
STB5V_S
STB5V_M
UNREG14V
P5V
1.8V_S
1.8V
3.3V
AA
AB
AC
AD

TH-42PHD6/TH-42PHW6 D-BOARD (7 of 15) Schematic Diagram


D-BOARD TZTNP01QJSU (8/15)
IC9603
C0JBAZ001604
3.3V -> 5V
IC9604
C0JBAZ001604
3.3V -> 5V
IC9601
C0JBAZ001604
3.3V -> 5V
IC9602
C0JBAZ000545
5V -> 3.3V
IC9605
C1ZBZ0002329
SYNC PROCESSOR/
OSD/
DISCHARGE CONTROL
IC9606
C0EBE0000066
RESET
Q9601
2SD0601A0L
Q9602
2SD0601A0L
R9653
EXB38V103JV
R9650
EXB38V103JV
R9651
EXB38V103JV
R9652
EXB38V103JV
STB5V_M
P5V
1.8V
3.3V
BA
BB
BC
BD
BE
BF
BG
BH
BI
BJ
BK
BL
51
52
53
54
55
56
57
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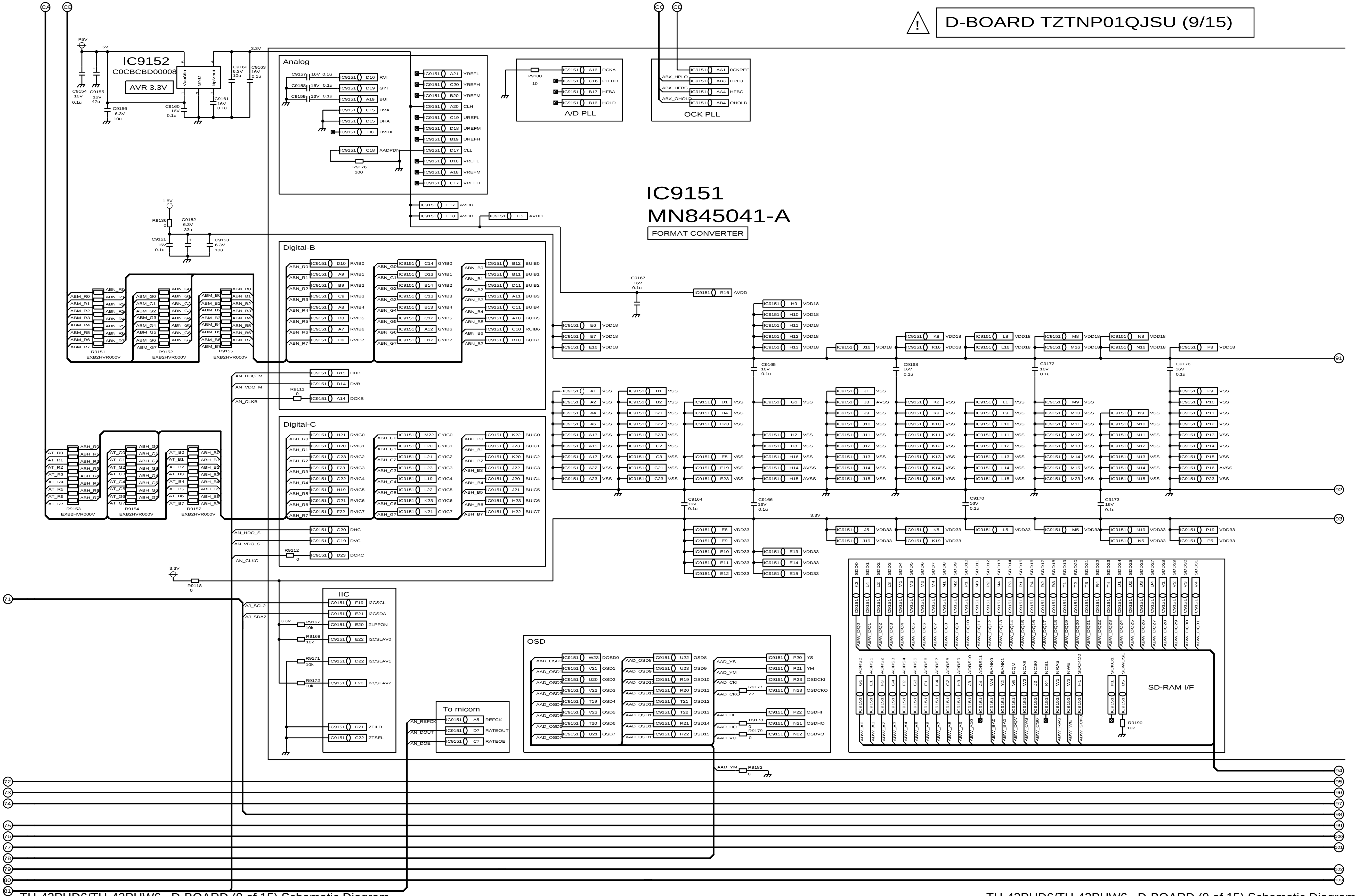
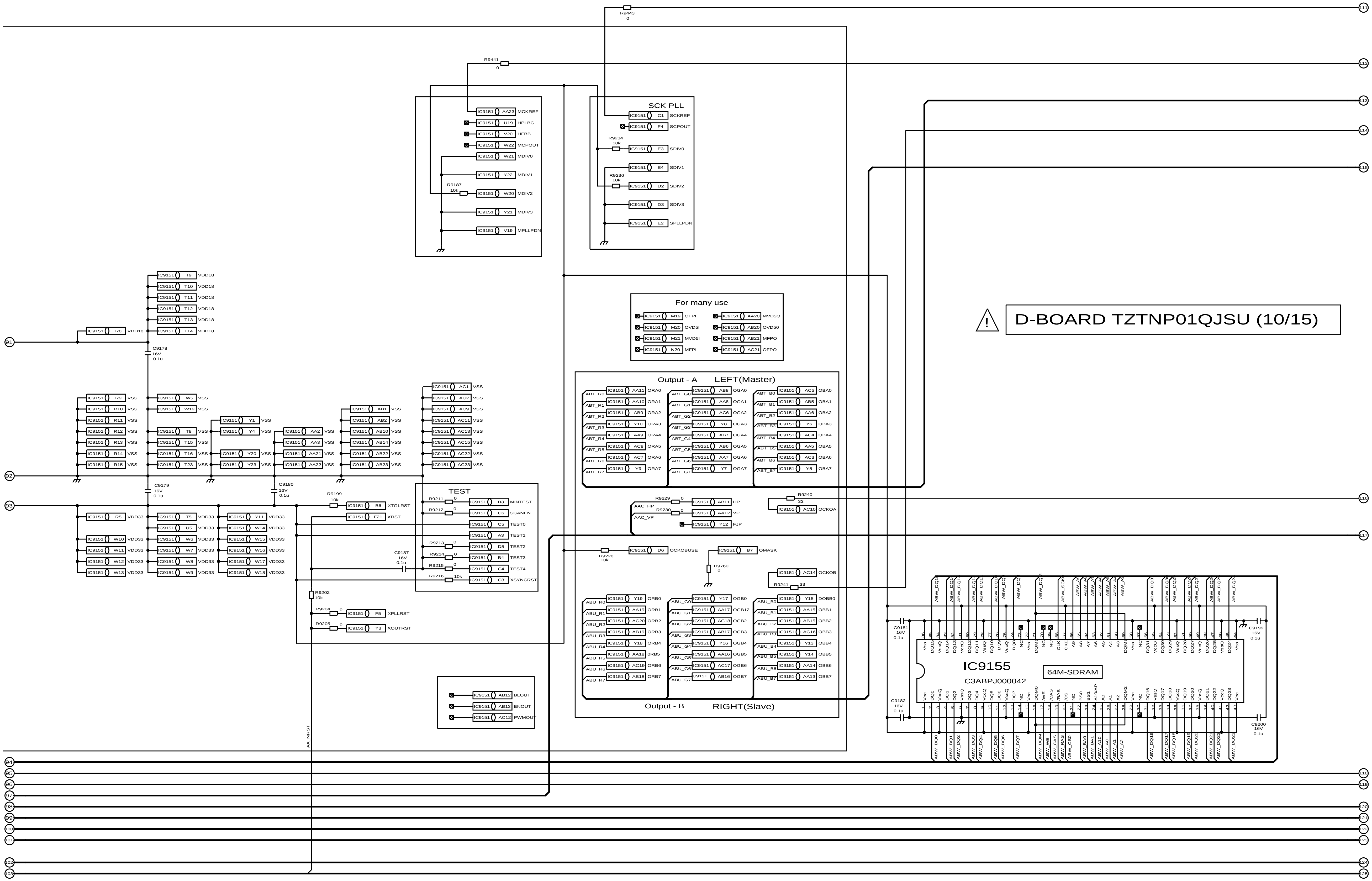
81

D-BOARD TZTNP01QJSU (9/15)


IC9152
C0CBCBD00008
AVR 3.3V
IC9151
MN845041-A
FORMAT CONVERTER
Analog
A/D PLL
OCK PLL
Digital-B
Digital-C
IIC
To micom
OSD
SD-RAM I/F
R9151 EXB2HVR000V
R9152 EXB2HVR000V
R9155 EXB2HVR000V
R9153 EXB2HVR000V
R9154 EXB2HVR000V
R9157 EXB2HVR000V
P5V
5V
3.3V
1.8V

TH-42PHD6/TH-42PHW6 D-BOARD (9 of 15) Schematic Diagram

TH-42PHD6/TH-42PHW6 D-BOARD (9 of 15) Schematic Diagram


D-BOARD TZTNP01QJSU (10/15)
SCK PLL
For many use
Output - A
LEFT(Master)
Output - B
RIGHT(Slave)
TEST
IC9155
64M-SDRAM
C3ABPJ000042
R9443 0
R9441 0
R9234 10k
R9236 10k
R9187 10k
MCKREF
HPLBC
HFBB
MCPOUT
MDIV0
MDIV1
MDIV2
MDIV3
MPLLPDN
SCKREF
SCPOUT
SDIV0
SDIV1
SDIV2
SDIV3
SPLLPDN
OFPI
OVD5I
MVD5I
MFPI
MVD5O
OVD5O
MFPO
OFPO
VDD18
VDD33
VSS
C9178 16V 0.1u
C9179 16V 0.1u
C9180 16V 0.1u
C9187 16V 0.1u
R9199 10k
XTGLRST
XRST
MINTEST
SCANEN
TEST0
TEST1
TEST2
TEST3
TEST4
XSYNCRST
R9211 0
R9212 0
R9213 0
R9214 0
R9215 0
R9216 10k
R9202 10k
R9204 0
R9205 0
XPLLRST
XOUTRST
AA_NRST
BLOUT
ENOUT
PWMOUT
ORA0
ORA1
ORA2
ORA3
ORA4
ORA5
ORA6
ORA7
OGA0
OGA1
OGA2
OGA3
OGA4
OGA5
OGA6
OGA7
OBA0
OBA1
OBA2
OBA3
OBA4
OBA5
OBA6
OBA7
R9229 0
R9230 0
AAC_HP
AAC_VP
HP
VP
FJP
R9240 33
OCKOA
R9226 10k
OCKOBUSE
OMASK
R9760 0
R9241 33
OCKOB
ORB0
ORB1
ORB2
ORB3
ORB4
ORB5
ORB6
ORB7
OGB0
OGB12
OGB2
OGB3
OGB4
OGB5
OGB6
OGB7
DOBB0
OBB1
OBB2
OBB3
OBB4
OBB5
OBB6
OBB7
C9181 16V 0.1u
C9182 16V 0.1u
C9199 16V 0.1u
C9200 16V 0.1u
91
92
93
94
95
96
97
98
99
100
101
102
103
111
112
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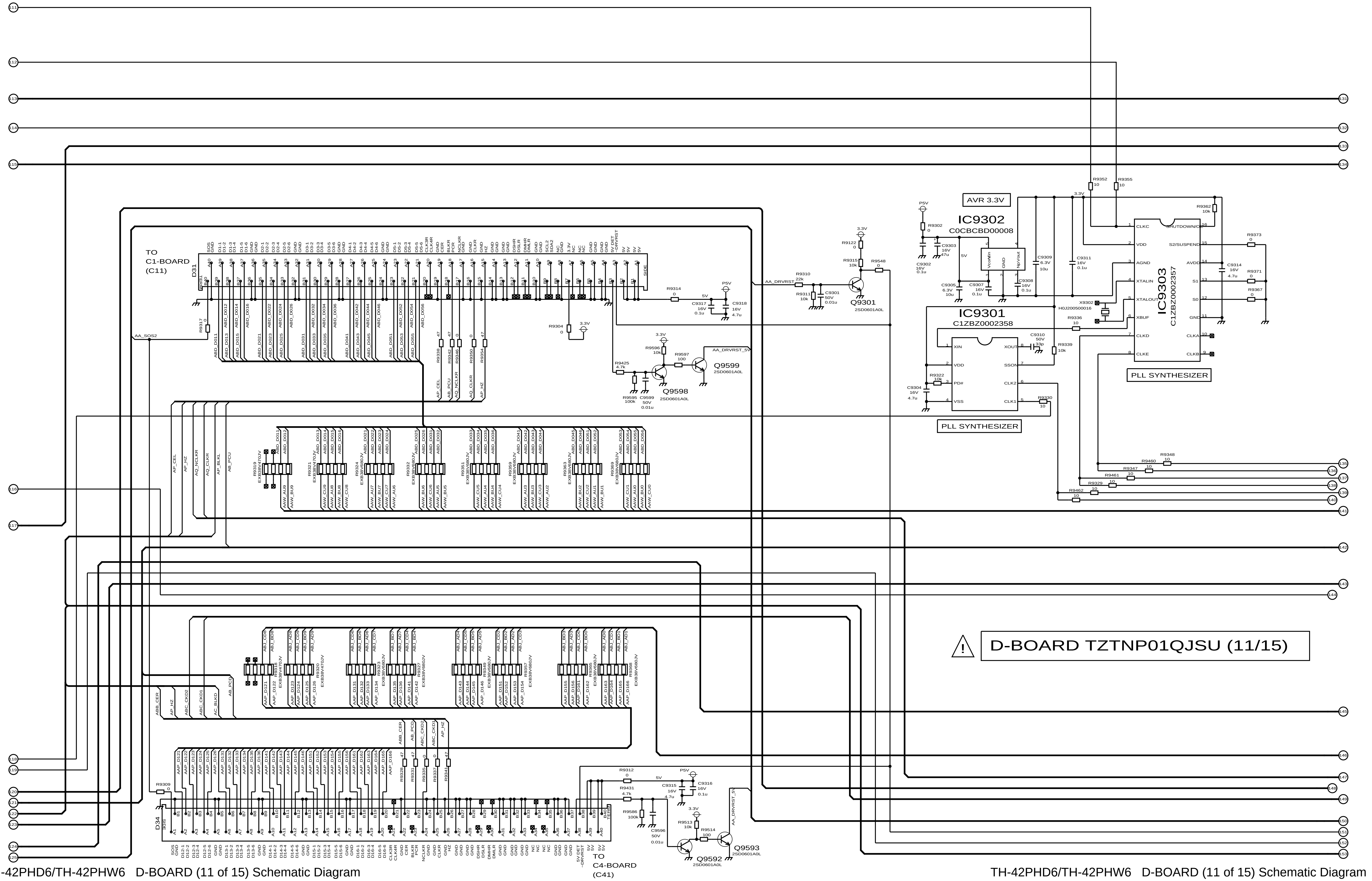
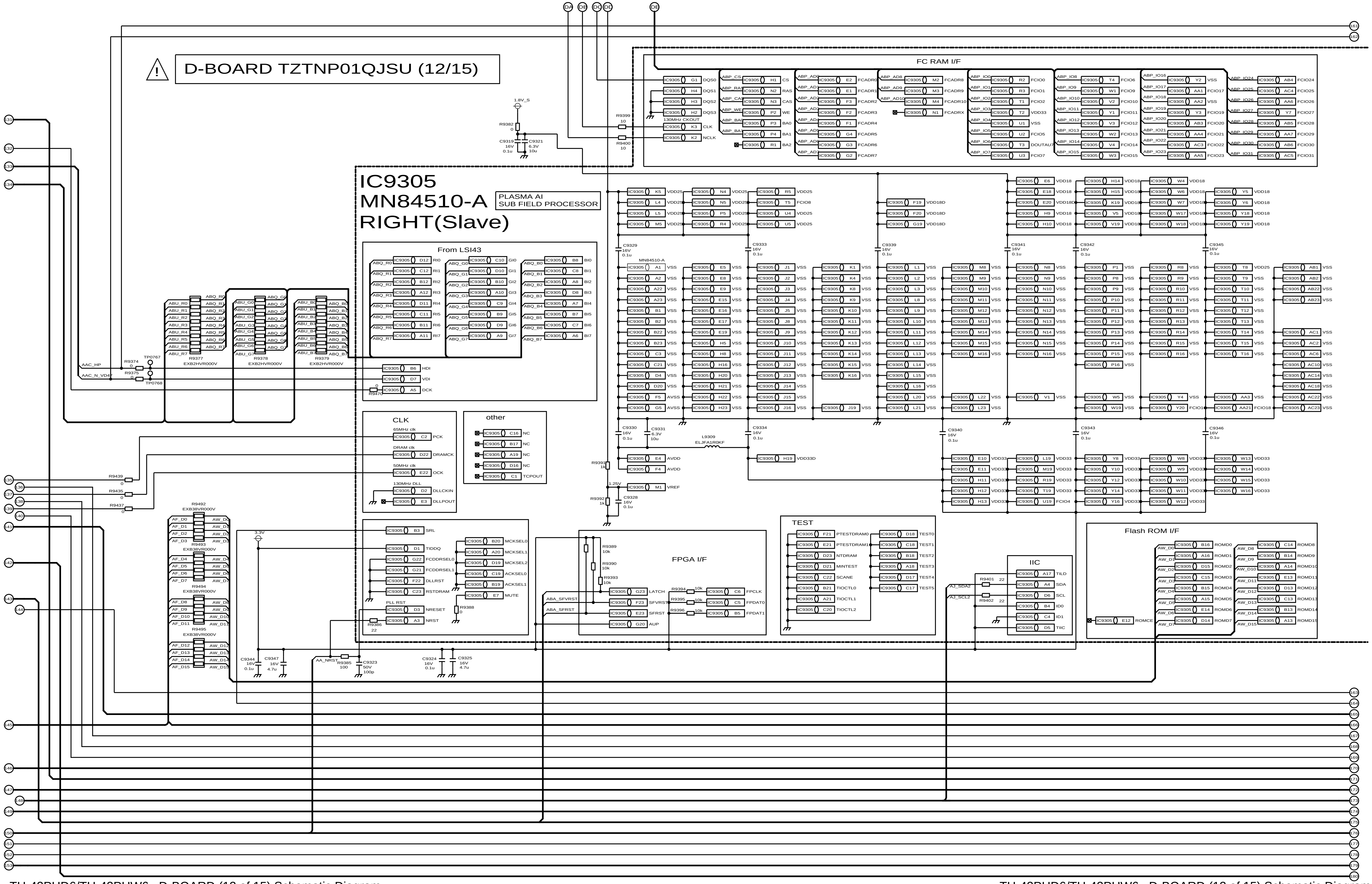
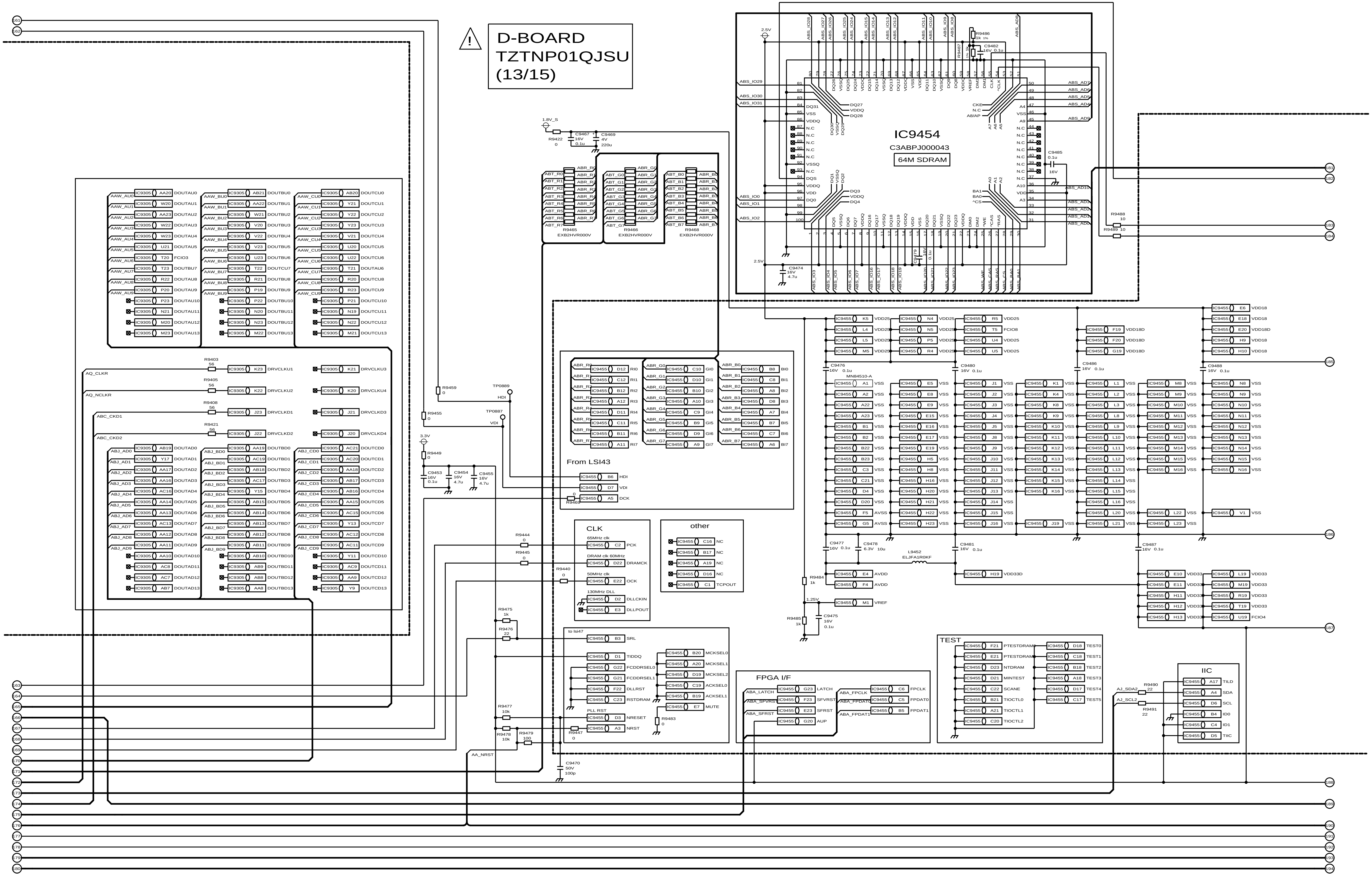

TO
C1-BOARD
(C11)
D31
TO
C4-BOARD
(C41)
D34
AVR 3.3V
IC9302
C0CBCBD00008
IC9301
C1ZBZ0002358
IC9303
C1ZBZ0002357
PLL SYNTHESIZER
PLL SYNTHESIZER
Q9301
Q9598
Q9599
Q9592
Q9593
2SD0601A0L
X9302
H0J200500016
AA_DRVRST
AA_DRVRST_5V
AA_SOS2
CLKC
VDD
AGND
XTALIN
XTALOUT
XBUF
CLKD
CLKE
SHUTDOWN/OE
S2/SUSPEND
AVDD
S1
S0
GND
CLKA
CLKB
XIN
VDD
PD#
VSS
XOUT
SSON
CLK2
CLK1
P5V
3.3V
5V

D-BOARD TZTNP01QJSU (11/15)


D-BOARD TZTNP01QJSU (12/15)
IC9305
MN84510-A
RIGHT(Slave)
PLASMA AI
SUB FIELD PROCESSOR
FC RAM I/F
From LSI43
CLK
other
TEST
FPGA I/F
IIC
Flash ROM I/F
65MHz clk
DRAM clk
50MHz clk
130MHz DLL
130MHz CKOUT
PLL RST
1.8V_S
3.3V
1.25V
L9309
ELJFA1R0KF
R9377
R9378
R9379
EXB2HVR000V
R9492
R9493
R9494
R9495
EXB38VR000V
AAC_HP
AAC_N_VD4
AA_NRST
ABA_SFVRST
ABA_SFRST
AJ_SDA2
AJ_SCL2
TP0767
TP0768

D-BOARD
TZTNP01QJSU
(13/15)


IC9454
C3ABPJ000043
64M SDRAM
IC9455
MN84510-A
IC9305
From LSI43
CLK
65MHz clk
DRAM clk 60MHz
50MHz clk
130MHz DLL
other
to lsi47
PLL RST
FPGA I/F
TEST
IIC
R9465
R9466
R9468
EXB2HVR000V
TP0889
TP0887
HDI
VDI
DCK
L9452
ELJFA1R0KF
1.8V_S
2.5V
3.3V
1.25V
AA_NRST
AQ_CLKR
AQ_NCLKR
ABC_CKD1
ABC_CKD2
AJ_SDA2
AJ_SCL2

TH-42PHD6/TH-42PHW6 D-BOARD (13 of 15) Schematic Diagram

TH-42PHD6/TH-42PHW6 D-BOARD (13 of 15) Schematic Diagram